BlackBerry Theme Builder

Version: 6.0

User Guide

BlackBerry

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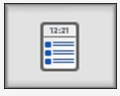
BlackBerry Theme Builder overview 1

You can create themes to personalize the screens on the BlackBerry® device. For example, you can change the background image, change the color of the font, change the applications that appear on the screens, set an application to open a webpage, add a ring tone, and create screen transitions. You can use sample images that are included in the BlackBerry Theme Builder or you can create your own images and use them in the BlackBerry Theme Builder.

You can create a theme for your device or you can make themes available online (for example, on the BlackBerry App World™ storefront) so that BlackBerry device users can download them. Users can use the themes that are provided on the device or they can download themes from online retailers.

You can install a BlackBerry Smartphone Simulator to test themes on your desktop before you distribute them to devices, or you can install the themes directly on a device.

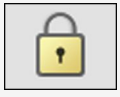
Customizable screen elements

Screen element	Description
Home screen	The Home screen appears when you turn on or unlock the BlackBerry® device. In your theme, you can make the following changes to the Home screen: • Change the background image • Change the font type and font color In the BlackBerry Theme Builder, you can customize the Home screen for your theme by clicking the Home Screen button in the Inspector. For themes with a BlackBerry® 6 theme layout, you have the additional option of making changes to the Today Home screen by clicking the Today Home screen button in the Inspector. 

Screen element	Description
Application list	The Application list displays the applications, games, and folders that are on the device. For devices running BlackBerry® 6 with a BlackBerry 6 theme layout, you can tap All on the tray to display the list of applications. For devices running BlackBerry Device Software 5.0 and earlier, the Application list appears when you press the Menu key on the Home screen of the BlackBerry device. In your theme, you can make the following changes to the Application list: • Change the font type and font color for the text on the Application list • Change the images for the different icons for the applications • Add links to web pages In the BlackBerry Theme Builder, you can customize the Application list screen for your theme by clicking the Application List button in the Inspector.
Banners	The banner displays items, such as the date and time, network connectivity, and notification icons, in the upper portion of the device screens. There are two types of banners: Home screen and Application. In your theme, you can make the following changes to both banners: • Change the background image • Change the images for the indicator icons such as the battery and signal meters • Change the font type and font color • Move banner items For Home screen banners, you can also hide items and move items on the banner. The Home screen banner appears on the Home screen and, depending on the theme layout, on the Lock screen.

Screen element	Description
	In the BlackBerry Theme Builder, you can customize the Home screen banner for your theme by clicking the Banner button in the Inspector and then clicking the Show the Home screen Banner button on the toolbar.
	The Application banner appears on the Application list, message list, phone screens, and depending on the theme layout, on the Lock screen. The Application banner is similar to the banner on the Home screen except that the Application banner is narrower in height than the Home screen banner and you cannot move or remove items from the Application banner. In the BlackBerry Theme Builder, you can customize the Application banner for your theme by clicking the Banner button in the Inspector and then clicking the Show the Application Banner button on the toolbar.
Message list	On the device, the Message list displays the icons that identify the type and status of the messages. These icons include images for email messages, text messages, and browser messages, such as saved browser requests or pushed browser content. In your theme, you can make the following changes to the Message list: • Change the background image • Change the icons for the messages • Change the text color for the messages that are sent with high priority In the BlackBerry Theme Builder, you can customize the items on the Message list screen for your theme by clicking the Message List button in the Inspector.

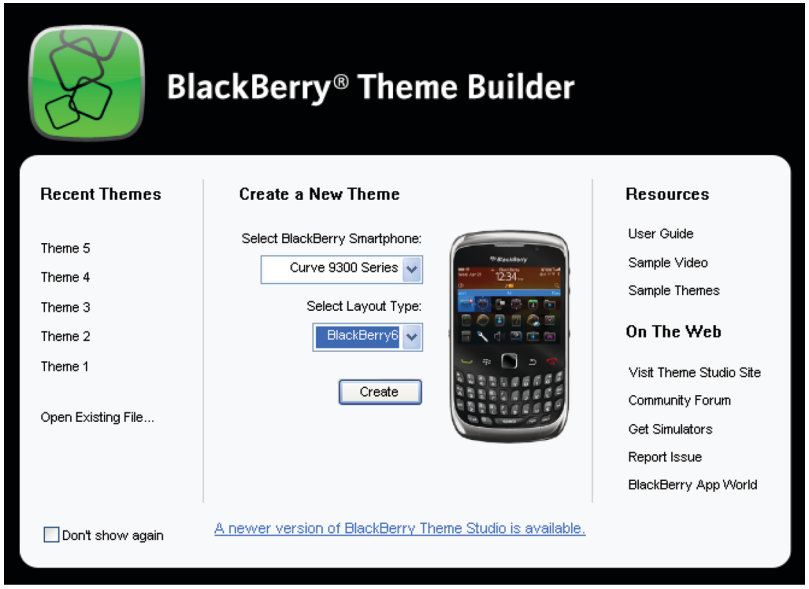
Screen element	Description
Active Call screen	The Active Call screen appears when you make a call on the device. In your theme, you can make the following changes to the Active Call screen: • Change the background image • Change the font type and color • Change phone icons In the BlackBerry Theme Builder, you can customize the items on the Active Call screen for your theme by clicking the Active Call screen button in the Inspector.
Incoming Call screen	The Incoming Call screen appears when you receive a call on the device. In your theme, you can make the following changes to the Incoming Call screen: • Change the background images • Change the font type and color • Change the ring tone In the BlackBerry Theme Builder, you can customize the items on the Incoming Call screen for your theme by clicking the Incoming Call screen button in the Inspector.

Screen element	Description
Phone Hotlist screen	The Phone Hotlist screen appears when you view the call log on the device. In your theme, you can make the following changes to the Phone Hotlist screen: • Change the images for the phone icons that show multiple states • Change the color of the text for the phone number of the device and for the phone number that you dial when you make a call In the BlackBerry Theme Builder, you can customize the items on the Phone Hotlist screen for your theme by clicking the Phone Hotlist screen button in the Inspector.
Lock screen	Depending on the settings, the device might lock after a period of time. In your theme, you can make the following changes to the Lock screen: • Change the background image • Change the Lock icon • Add animation to the Lock screen • Move the items on the Lock screen • Layer the items on the Lock screen In the BlackBerry Theme Builder, you can customize the items on the Lock screen by clicking the Lock screen button in the Inspector. 

Screen element	Description	
UI controls	Controls, such as dialog boxes, menus, title bars, buttons, lists, pop-up menus, group boxes, and the search field, can appear on all the device screens. You can change the icons, fonts, and colors for these items. In the BlackBerry Theme Builder, you can customize the controls for your theme by clicking the Controls button in the Inspector. 	
Global items	The following items can appear on all device screens: • Icons for wireless coverage • Navigation arrows • Progress bars • Hourglass icon • Screen transition effects, such as slides, wipes, or zooms In the BlackBerry Theme Builder, you can customize the items for your theme by clicking the Global Items button in the Inspector. 	

Quickstart screen

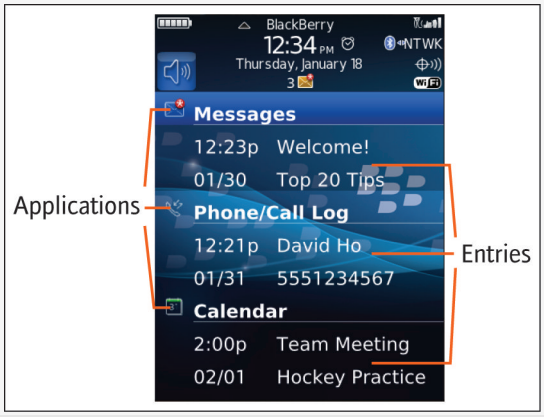
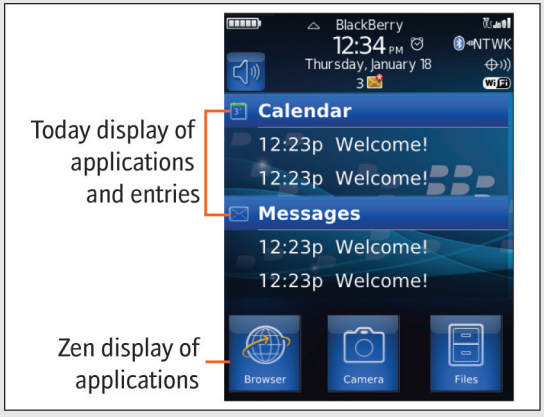
When you open the BlackBerry® Theme Builder, the Quickstart screen appears. The Quickstart screen lists the theme that you worked on recently or you can click the Open Existing File link to open any other file or you can create a new theme. The Quickstart screen provides links to resources to help you develop your theme if you need more information and indicates when a new version of the BlackBerry Theme Builder is available for you to download. You can also click the Report Issue link to provide feedback on the BlackBerry Theme Builder.



Theme layout types

When you create a theme, you must first select a theme layout type. A theme layout type determines how the applications appear on the Home screen of the BlackBerry® device. You can choose from one of the following theme layout types:

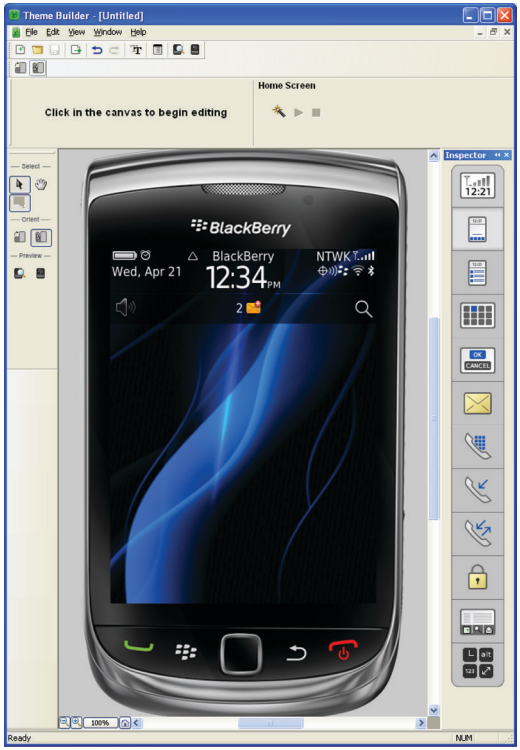
BlackBerry 6	The Home screen displays a notification bar and a tray. BlackBerry device users can tap the notification bar to display Today notification items for new email messages and new phone calls. Users can tap the tray to display an application list. The BlackBerry 6 theme layout is available only if you create a theme for a device that is running BlackBerry® 6.	

Zen	The Home screen displays application icons along the bottom of the screen. Users can click an icon to access that application on the device.	
Today	The Home screen displays three notification items (message, calendar, and phone by default), and the most recent entries appear below each application icon. Users can click an icon to access that application, or they can click an entry (for example an appointment on the calendar) to see details of the entry.	
Custom	The Home screen displays a combination of Zen theme items (application icons only) and Today theme items (application icons and the most recent entries). You can position these items anywhere on the screen. To create a custom theme for a device that is running BlackBerry 6, you can use the Custom 6 theme layout. To create a custom theme for devices running software versions earlier than BlackBerry 6, use the Custom theme layout.	

Icon	The Home screen displays application icons in a grid layout. You can organize the application icons into a hierarchy of folders. No application list screen is available for an Icon theme layout because all applications appear on the Home screen.	

BlackBerry Theme Builder workspace

When you start the BlackBerry® Theme Builder, the workspace displays a preview image of the BlackBerry device that you created the theme for, a toolbar, and the collapsed view of the Inspector panel.



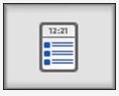
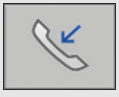
The workspace is customizable. You can show the tools that you use most often and hide the ones that you don't use. For example, if you prefer to work in the preview area of the canvas, you can show the Quick Edit bar and you can hide the Inspector by clicking the arrow on the header of the Inspector. You can move the project tools to any part of the workspace, and you can undock any of the tools from the workspace. The BlackBerry Theme Builder saves the customizations that you make to the workspace for the next time that you open the BlackBerry Theme Builder.

Canvas	The canvas displays the preview area. You can move the preview area around the canvas.
Toolbar	You can use the toolbar in the BlackBerry Theme Builder to access actions you use on a regular basis. After you select a screen to change, the toolbar shows only the buttons that apply to the screen you selected.
Preview area of the canvas	The preview area of the canvas displays a preview image of the device that you created the theme for. You can click the device element on the preview area of the canvas and make changes to the element on the Quick Edit bar. You can change the size of the preview image by using the Zoom buttons that are below the preview image.
Quick Edit bar	The Quick Edit bar displays the options that you can use to change an element. You must first click an element in the preview area of the canvas to see the options on the Quick Edit bar.

Inspector	The Inspector includes the buttons that you can use to select a screen and the elements for each screen that you can change. You can expand the Inspector to show all the elements and make the changes to them on the Inspector. If you prefer, you can hide the elements in the Inspector and use the Quick Edit bar to make changes to the elements.
Catalog panel	The Catalog panel stores images and colors for use in your themes. You can drag images and colors from the Catalog to the Quick Edit bar or to the Inspector.
Alignment panel	The Alignment panel allows you to select multiple objects on specific screens and change the alignment of the objects.

Inspector

To customize screen elements in a theme, you must first select the screen that you want to change. You can click a button in the Inspector to select the screen. After you select a screen, you can use the Quick Edit bar or the Inspector to customize the screen elements for the BlackBerry® device.

Inspector	Button	Description
Banner		You can click the Banner button in the Inspector to access the Banner options where you can change the icons, fonts, and images in the banners that appear across the top of the screens.
Home Screen		You can click the Home screen button in the Inspector to access the Home screen options. Home screen options vary depending on the theme layout that you choose.
Today Home Screen		For BlackBerry 6 theme layouts, you can click the Today Home screen button in the Inspector to change the appearance of the unread email and phone messages.
Application List		You can click the Application List screen button in the Inspector to access the Application list options. In the Application list, you can specify icons to use for each application.
Controls		You can click the Controls button in the Inspector to access the Controls options where you can change the appearance of application controls on the BlackBerry device, such as dialog boxes, buttons, menus, title bars, lists, and search fields.
Message List		You can click the Message List button in the Inspector to access the options to change the appearance of the messages application.
Phone Hotlist		You can click the Phone Hotlist screen button in the Inspector to access options to change phone icons, active and focus button images, and the color of the text for the calling number and the device phone number.
Incoming Call		You can click the Incoming Call screen button in the Inspector to access options to change the background image, the ring tone, and font settings for the Incoming Call screen.

Inspector	Button	Description
Active Call		You can click the Active Call screen button in the Inspector to access options to change background images, icons, and font settings for the Active Call phone screen.
Lock Screen		You can click the Lock screen selector to access the options to change the fonts and the images to use on the Lock screen.
Shortcut Bar		You can click the Shortcut Bar button on the Inspector to access options where you can specify the images and backgrounds to use for the shortcut bar on a device with a touch screen.
Global items		You can click the Global items button on the Inspector to access options where you can specify the images and colors for items that appear on the screen for all applications, such as the transmission indicators and progress bars. You can specify the transition effects to use when the user moves from one screen to another.
External Screen		You can click the External screen button on the Inspector to access options to change the Home screen, Phone, and Notification display on an external screen for a device with a flip screen.

Toolbar

You can use the toolbar in the BlackBerry® Theme Builder to perform actions that you might use on a regular basis. After you select a screen to change, the toolbar shows only the buttons that apply to the screen you selected. You can point to a button on the toolbar and the name of the button appears in a ToolTip.

Button	Description
Select an Individual Object	You can click Select an Individual Object, select the element on the preview area of the canvas, and then on the Quick Edit bar, you can make changes to the element. By default, the Select an Individual Object feature is turned on; however if you clicked the Scroll the Preview Area button and you want to make changes to an element, you must click the Select an Individual Object button again.
Scroll the Preview Area	You can click Scroll the Preview Area to move the preview area on the canvas.
Turn On/Off Bounding Boxes	You can click Turn On/Off Bounding Boxes and click objects on the preview area of the canvas to highlight objects, so that you can move them or change their alignment.
	You can click Preview Theme on Simulator to view your theme on a BlackBerry Smartphone Simulator. You must first install a BlackBerry Smartphone Simulator for the BlackBerry device that you create the theme for.

Button	Description
Preview Theme on Simulator	
Preview Theme on BlackBerry	You can click Preview Theme on BlackBerry to see how a theme appears on a BlackBerry device. You must first connect your computer to a device that you create the theme for.
Show the Application Banner	You can click Show the Application Banner to make changes to the Application banner. This button appears on the toolbar if you selected the Banner button in the Inspector.
Show the Home screen Banner	You can click Show the Home screen Banner to make changes to the banner on the Home screen. This button appears on the toolbar if you selected the Banner button in the Inspector.
Add a Today Item	You can click Add a Today Item to display an application name with notification items on a Home screen that has a Custom or Custom 6 layout. This button appears on the toolbar if you selected the Home screen button in the Inspector for a theme with a Custom or Custom 6 layout.
Add a Zen Item	You can click Add a Zen Item to display an application icon on the Home screen that has a Custom or Custom 6 layout. This button appears on the toolbar if you selected the Home screen button in the Inspector for a theme with a Custom or Custom 6.
Enable Focus Today Area	You can click Enable Focus Today Area to show Today details about an application when the application is in focus and to make changes to the appearance of the Focus Today area. This button appears on the toolbar if you selected the Home screen button in the Inspector for a theme with a Custom or Custom 6.
Enable Application Name	You can click Enable Application Name to show the name of the application that is in focus and to make changes to the appearance of the application name. This button appears on the toolbar if you selected the Home screen button in the Inspector for a theme with a Custom or Custom 6.
Change BlackBerry Orientation	You can click Change BlackBerry Orientation to change from portrait mode to landscape mode. If you want the theme in portrait mode to look different in landscape mode, you can click the Change BlackBerry Orientation button and customize each mode. This button is available if you are creating a theme for devices with a touch screen.
Link Portrait and Landscape Changes	You can click Link Portrait and Landscape Changes to link or unlink changes in portrait and landscape mode. When Link Portrait and Landscape Changes is selected, the changes that you make to images, fonts, or colors in Landscape mode are the same in Portrait mode. When the button is not selected, the changes that you make to one mode is not reflected in the other. This button appears on the toolbar if you are creating a theme for devices with a touch screen.

Button	Description
Show the Titlebar	You can click Show the Titlebar to show or hide the title bar in the preview area of the canvas. When the title bar is visible in the preview area of the canvas, you can make changes to the appearance of the title bar. This button appears on the toolbar if you selected the Controls button in the Inspector.
Show the Search field	You can click Show the Search field to show or hide the search field in the preview area of the canvas. When the search field is visible in the preview area of the canvas, you can make changes to the appearance of the search field. This button appears on the toolbar if you selected the Controls button in the Inspector.
Show the Menu	You can click Show the Menu to show or hide the menu in the preview area of the Canvas. When the menu is visible in the preview area of the canvas, you can make changes to the appearance of the menu. This button appears on the toolbar if you selected the Controls button in the Inspector.
Show the Dialog and Button	You can click Show the Dialog and Button to show or hide the dialog box in the preview area of the canvas. When the dialog box is visible in the preview area of the canvas, you can make changes to the appearance of the dialog box or buttons. This button appears on the toolbar if you selected the Controls button in the Inspector.
Show the Group Box	You can click Show the Group Box to show or hide the group box in the preview area of the canvas. When the group box is visible in the preview area of the canvas, you can make changes to the appearance of the group box. This button appears on the toolbar if you selected the Controls button in the Inspector and you are creating a theme for devices running BlackBerry® 6.
Show the Popup Menu	You can click Show the Popup Menu to show or hide the pop-up menu in the preview area of the canvas. When the pop-up menu is visible in the preview area of the canvas, you can make changes to the appearance of the pop-up menu. This button appears on the toolbar if you selected the Controls button in the Inspector and you are creating a theme for devices running BlackBerry 6.

Align objects

1. If the Alignment tool isn't showing, in the **Window** menu, click **Alignment**.
2. On the toolbar, click the **Turn On/Off Bounding Boxes** button.
3. On the preview area of the canvas, click the objects that you want to align.
4. On the Alignment tool, click an alignment option.

Selecting multiple objects

You can select more than one object and make changes to all the objects at one time. For example, you can select multiple text objects in the Home screen banner and on the Quick Edit bar you can select the font to use for all the objects. You can also select multiple objects to move them simultaneously or to align them.

Do one of the following:

- To select multiple objects that are beside each other, click an object, press SHIFT, and click the objects in sequence.
- To select multiple objects that are not beside each other, click an object, press and hold CTRL, and click the objects that you want to adjust.

Configuring the BlackBerry Theme Builder 2

Change the screen that appears when the BlackBerry Theme Builder starts

By default, the Quickstart screen appears when you start the BlackBerry® Theme Builder. On this screen, you can create new theme projects, open existing projects, and access the documentation. If you typically open an existing project, you might want to specify that the Open dialog box appears instead.

1. On the **Edit** menu, click **Preferences**.
2. On the **Startup** tab, perform one of the following actions:

Task	Steps
Display the **Create New Theme** dialog box to create a new theme project.	From the **Startup Action** drop-down list, click **Create New Document**.
Display the **Open** dialog box so you can select an existing project.	From the **Startup Action** drop-down list, click **Open File Dialog**.
Display no dialog box.	From the **Startup Action** drop-down list, click **Do Nothing**.
Display the screen that appears by default when the BlackBerry Theme Builder starts. This screen includes links to resources and shortcuts for creating a new theme project.	From the **Startup Action** drop-down list, click **Show Quickstart Screen**.

3. Click **OK**.

Configure properties for a theme

You can add descriptive information about your theme that appears when users view the properties of a theme on their BlackBerry® devices.

1. On the **Edit** menu, click **Preferences**.
2. On the **Theme Info** tab complete the fields.

Option	Description
Vendor	Specify the creator and owner of the theme.
Copyright	Specify copyright information.
Version	Specify version information for the theme. This field only supports numeric characters and decimal points. Include at least one decimal point, for example, 1.12 or 4.2.6.

Description	Provide a brief description of the theme. Limit the description to one or two sentences.

3. Click **OK**.

Change the applications that you use for editors

You can specify which applications to use as the default for image editors, SVG editors, and audio editors.

1. On the **Edit** menu, click **Preferences**.
2. On the **Applications** tab, click **Browse** and select the application to use for each file type.

Option	Description
Select Default SVG Editor	This option specifies the application to use with .svg files. You can work with .svg files using the BlackBerry® Composer. You can include .svg files on the Home screen or the Lock screen.
Select Default Image Editor	This option specifies the application to use for image files. When you select images in the Inspector pane, you can edit them using the default editor. For example, you can specify Adobe Illustrator® as the default image editor.
Select Default Audio Editor	This option specifies the application to use for audio files. You can use this editor for ring tones that you specify for the phone screens.

3. Click **OK**.

Change transparency settings

You can change transparency settings to make the transparency pattern easier to see on different backgrounds. For example, you can use a lighter transparency pattern over a darker background.

1. On the **Edit** menu, click **Preferences**.
2. On the **Transparency** tab, click the **Color Settings** drop-down list and select a shade for the transparency.
3. Click the **Color 1** box.
4. Click a color for the transparency.
5. Click the **Color 2** box.
6. Click a color for the transparency.
7. Click **OK**.

Show or hide BlackBerry Theme Builder tools

If a BlackBerry® Theme Builder tool isn't displayed on the UI of the BlackBerry Theme Builder, you can click the tool name on the Window menu to show it. To hide the tool, you can click the tool name on the Window menu again.

On the **Window** menu, perform one of the following actions:

Task	Steps
Show or hide the Inspector panel.	Click **Inspector**.
Show or hide the Quick Edit bar.	Click **Quick Edit**.
Show or hide the Toolbar.	Click **Toolbar**.
Show or hide the Catalog panel.	Click **Catalog**.
Show or hide the Alignment panel.	Click **Alignment**.

Show or hide the faceplate

To show or hide the BlackBerry® device faceplate, on the **View** menu, click **Show Face Plate**.

Change the faceplate

By default, the BlackBerry® Theme Builder preview area displays the BlackBerry device faceplate. You can change the faceplate to determine whether the faceplate coloring works with the colors of your theme.

1. To change the faceplate, on the **View** menu, click **Change Face Plate**.
2. Click a faceplate.
3. Click **OK**.

SVG preview

You can configure the BlackBerry® Theme Builder to show an SVG in the preview area of the canvas. If you select an .svg file for the Home screen or the Lock screen, the SVG appears in the preview area of the canvas.

SVG files are displayed slowly on the BlackBerry Theme Builder. To save time, you can turn off the SVG preview. If you turn off the SVG preview, the BlackBerry Theme Builder does not import and display the SVG.

Turn on the SVG preview

1. On the **Edit** menu, click **Preferences**.
2. Click the **SVG** tab.
3. Select the **SVG Preview** check box.

4. Click **OK**.

Turn off the SVG preview

1. On the **Edit** menu, click **Preferences**.
2. Click the **SVG** tab.
3. Clear the **SVG Preview** check box.
4. Click **OK**.

Creating and changing theme projects 3

You can create your new theme project using the selected layout type as your starting point. You can change from one layout type to another at any time, however, if you customize the Home screen, the customizations do not apply in the new theme layout. Other changes that you make in the theme project apply.

You must create your theme project for the specific screen dimensions of a BlackBerry® device. The BlackBerry Theme Builder scales the screen elements to fit the specified screen dimensions.

When you export a theme, you choose the specific device to export the theme for. You cannot create a theme and export it for use on BlackBerry devices that have different screen dimensions.

For example, if you design a theme for a BlackBerry® Tour™ Series smartphone (with screen dimensions of 480 x 360 pixels), users cannot download that theme to a BlackBerry® Curve™ 8300 Series smartphone (with screen dimensions of 320 x 240 pixels). Users can, however, download the theme to a BlackBerry® Bold™ 9700 smartphone, that has the same screen dimensions (480 x 360 pixels) as the BlackBerry® Tour™ Series smartphone.

You can save a theme project at any time and reopen it later to continue designing your theme.

Create a theme

1. On the **File** menu, click **New**.
2. In the **Create New Theme** dialog box, in the **Name** field, type a name for your new theme project.
3. In the **BlackBerry** drop-down list, click the BlackBerry® device that you are creating the theme for.
   If you are creating a theme for the BlackBerry® Curve™ 8330 smartphone, click **Curve 8330 Series**. If you are creating a theme for the BlackBerry® Curve™ 8350i smartphone, click **Curve 8350 Series**. If you are creating a theme for the BlackBerry® Curve™ 8300, BlackBerry® Curve™ 8310, or BlackBerry® Curve™ 8320, click **Curve 8300 Series**.
4. In the **Layout Type** drop-down list, click the layout that you want to use as the basis for your new theme.
5. Click **Create**.

Best practice: Naming a theme project

You should give your theme projects names that are unique, and avoid using special characters. When you export your theme project and create the .cod file, the BlackBerry® Theme Builder changes a special character in the file name (for example, - , +, and &) to an underscore (_). If two file names are differentiated only by special characters, after they are exported to the .cod file, the files will have identical names.

If you choose the Overwrite Existing Files option when you export your theme project, the BlackBerry Theme Builder does not warn you when it overwrites an existing file with the same name in the same directory.

Reader is a reserved name. You cannot use it as a theme name.

Open a theme project

1. On the **File** menu, click **Open**, and navigate to the (.thm) file for the theme project that you want to open.
2. Click **Open**.

Update a theme project created with an earlier version of the BlackBerry Theme Builder

Themes that were created with earlier versions of BlackBerry® Theme Builder are not compatible with later versions of the BlackBerry® Device Software. You can update the theme project by opening it in the BlackBerry Theme Builder and then exporting it to the desired version of the BlackBerry Device Software.

1. On the **File** menu, click **Open**.
2. Navigate to the theme project that you want to update.
3. Click **Open**. The BlackBerry Theme Builder prompts you to update the theme file to a newer version.
4. Click **OK**.

Save a theme project

1. Perform one of the following actions:
   - To save an existing project, on the **File** menu, click **Save**.
   - To save the project with a new name, on the **File** menu, click **Save As**.
2. Type the name for the theme project and then navigate to the location you want to save the project in. The file is saved in the BlackBerry Theme Builder as a .thm file.

Changing theme layouts and screen sizes

When you create a theme, you must select the layout and the BlackBerry® device model that you want to target. However, if you wish to create a family of related themes that, for example, targets different screen sizes and present different Home screen layouts, the BlackBerry Theme Builder enables you to do so, without you having to create similar looking themes from scratch.

You can change from one theme type to another at any time. Changes you made to the Home screen are lost, since they will no longer apply in the new theme. However, the BlackBerry Theme Builder preserves changes elsewhere in the theme.

A single theme project cannot target multiple screen sizes. You must create a new theme to target a different screen size. However, you can leverage design work you've already done for another theme by importing it into your new theme.

When you import a theme that targets a different screen size, all modified theme elements are imported into your new theme. After the theme is imported, you may need to make some slight adjustments, for example, in the placement of banner elements, to achieve the desired results.

Change the layout type

1. On the **Edit** menu, click **Change Layout Type**.
2. Select the layout type that you want to use.

Convert a theme to a different screen size

You should choose the same theme layout as the one that you plan to convert, or the customizations to the Home screen are not converted.

1. On the **File** menu, click **New**.
2. In the **Create New Theme** dialog box, complete the fields and select a screen size.
3. Click **Create**.
4. When the new project is created, click **File** > **Import**.
5. Navigate to the theme that you want to convert to the new screen size.

Working with images

4

When you add an image to a theme, the BlackBerry® Theme Builder stores the converted image as part of the theme. If the image is not a .png file, BlackBerry Theme Builder converts the image to a .png file. If you change the source image, the BlackBerry Theme Builder does not update the image in the theme automatically; you must reload the source image into the theme to update it. If you added the image previously to a catalog and you want a current version, you must remove it from the catalog and then add it to the catalog again.

Work with images

1. To view information for an image, place the cursor over the image in the **Quick Edit** bar. A ToolTip displays the name and the dimensions of the image.
2. To perform other actions for an image, in the **Quick Edit** bar, click the drop-down list beside the name of the image.

   The drop-down list appears.
3. Perform one of the following actions:

Task	Steps
Change an image.	In the drop-down list, click **Change Image**.
Change an image using the image editor set in the Preferences dialog.	In the drop-down list, click **Edit Image**.
View an image using the image editor set in the Preferences dialog.	In the drop-down list, click **Preview Image**.
Reset an image to the default image.	In the drop-down list, click **Reset to Default**.
Update an image that you changed.	In the drop-down list, click **Reload**.
Optimize the colors in the image.	In the drop-down list, click **Dither Image**.

Change all images

After you update the images for your theme in an image editor, instead of replacing the files individually in the BlackBerry® Theme Builder, you can replace all the images at one time. The files and folders where you keep your images must mirror the following structure and naming conventions that the BlackBerry Theme Builder uses:

- The folders where you keep your images must have the same names as the folders where the BlackBerry Theme Builder stores the default images. To see the folder names, you can navigate to the Images folders in the BlackBerry Theme Builder program files (C:\Program Files\Research In Motion\BlackBerry Theme Studio 6.0\samples\Themes\Images\BlackBerry6_360x480) . For example, if you update images for the banner, you must create a folder with the name **banner**.

- The file names of your images must have the same file names that the BlackBerry Theme Builder uses as default file names. To see the names of the files for your theme type, you can navigate to the images folders (C:\Program Files\Research In Motion\BlackBerry Theme Studio 6.0\samples\Themes\Images\BlackBerry6_360x480). For example, if you update the background image for the application banner, you must save the file with the name **banner_application.png**.
- The image files must be in the appropriate folders. For example, the banner_application.png file belongs in the banner folder.

1. On the **Edit** menu, click **Change Images**.
2. In the **Select a Directory of Images** dialog box, click the folder where you store images for the theme.
3. Click **OK**.

Best practice: Creating effective designs

You should consider how images interact with one another in the UI so that they do not hinder how the BlackBerry® device user navigates the UI and uses the device. On the BlackBerry device UI, images are often layered on top of each other. For example, the Home screen icons overlay a background image and the application menus and dialog boxes overlay the application backgrounds.

Consider the following guidelines:

- Limit the number of colors that appear on a screen. Too many colors on a screen can result in too much visual stimulation for a user, or negatively affect how a user reads text or identifies icons. It can also hinder navigation.
- Use background images that are fairly uniform in color. Patterns should be subtle so that they do not overpower the text on controls such as menus, buttons, or dialog boxes.
- Limit the use of bolder colors to the icon and text elements, and make sure that the background has a lower color saturation. The background should not distract the users from the icons or text.
- Use complementing colors. A simple color palette that contains colors that complement each other enhances the users experience reading and navigating the UI.
- Define borders for control elements such as dialog boxes or menus. Borders around control elements separate them from the screen content that they overlay.

Creating background images for dynamically sized screen elements

You might experience challenges when you design background images for dialog boxes, buttons, menus, and title bars because of the following reasons:

- The background images are dynamic in size. Dialog boxes, buttons, and menus are scaled to fit the text that they contain. If you do not know the size of the screen element, you cannot design background images to fit; images must be scalable to accommodate any possible size.
- The background images overlay elements. You should separate dialog boxes, buttons, menus, and title bars from the screen content that they overlay so that they stand out. Typically, most UIs have borders that separate elements from the screen content that they overlay to create a three-dimensional layering effect.

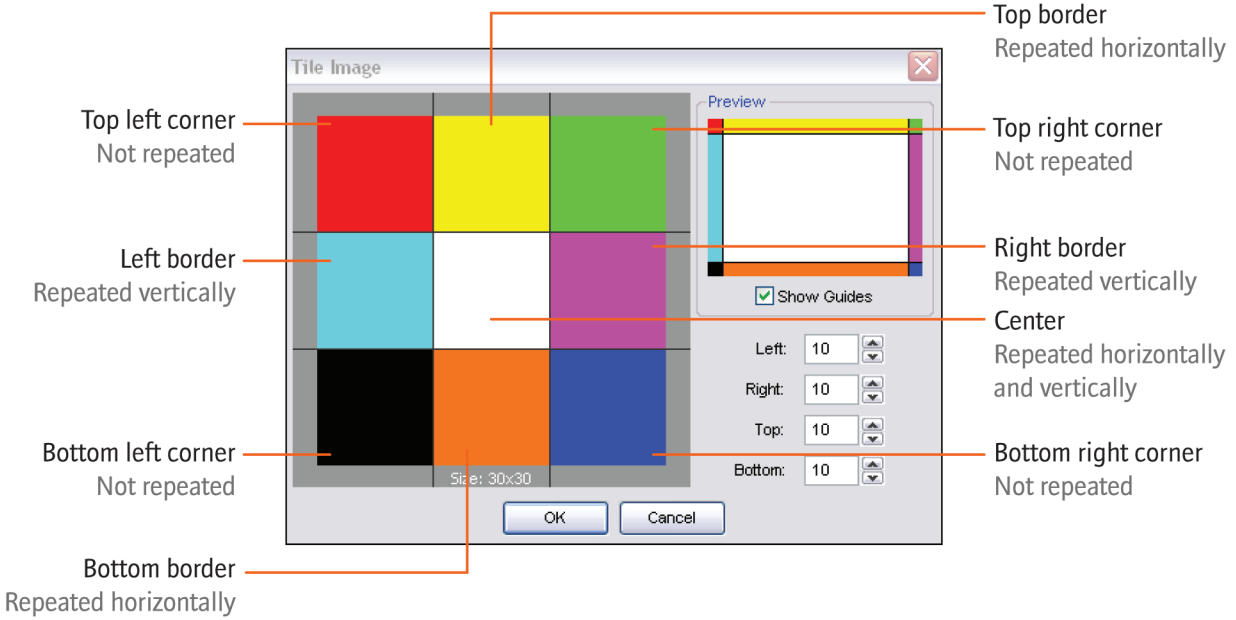
Since background images for dynamic elements require borders and you do not know what size you should use for the dynamic elements, you should use dynamic background images instead of static images. If you create an image that includes a border and background and then scale the image to fit, the borders scale as well, resulting in inconsistent border widths for similar elements. If you create separate images for the borders and background, the number or resources required is impractical.

To create a scalable image background with consistent border widths, the BlackBerry® Theme Builder uses pattern tile images. A pattern tile is a single image that includes a border and a repeatable pattern for the background fill. After you create a pattern tile, you can use the Tile Image dialog box to create the tile definition.The tile definition separates the repeatable tile portion and the border.

The tile definition instructs the BlackBerry device how to manipulate the image for an element that is dynamic. The BlackBerry device scales the portions that you specified as the border to surround the edges of the element and tiles the portion you specified as the repeatable pattern to fill the entire background.

For example, suppose you create the following pattern tile:

If you use the pattern tile as the background image for a dynamic element such as a dialog box, you must open the Tile Image dialog box to create the tile definition:



After you create the tile definition, you can view the how the image will appear on the dynamic element in the Preview pane.

Creating images with multiple states

Themes contain several elements that you cannot create a single static image for. Some images must display different levels or states. For example, the battery meter displays how much power remains in the battery. The image for the battery meter must display the battery power levels from 100% power to 0% power. The image must also show the increase in the battery power level as the battery charges. In addition, you must include an image for cases when the BlackBerry® device is unable to determine the battery power level.

Instead of specifying a separate image for each state, you must create a composite image. Composite images are made up of a number of component images that depict every possible state of an element.

Component images can be any dimension; however, each component image within a composite must have the same height and width. To determine the correct dimensions for each component image, the BlackBerry Theme Builder takes the dimensions of the composite image and divides the width by the number of images in each row, and divides the height by the number of rows. For example, the composite image for the wireless coverage indicator is made up of a single row of nine component images. Therefore, if the composite image is 180 x 10 pixels, then the size of each component image is 20 x 10 pixels.

Banner images with multiple states

Element	Component images	Description
battery power indicator	24	This composite image must include two rows of 12 equal-sized images. The composite image must include the following component images: • First row: 11 images that represent the battery power level from 0% to 100% from left to right in 10% increments, and one image for unknown battery status. • Second row: 11 images that represent the battery charging from 0% to 100% from left to right in 10% increments, and one image for unknown battery status. Example:

Element	Component images	Description
wireless coverage indicator	9	This composite image must include one row of 9 equal-sized images. The composite image must include the following component images from left to right: • wireless network off • wireless network unavailable • wireless network available (6 images, representing signal strength from 0 signal bars to 5 signal bars) • wireless network status unknown Example:
Wi-Fi® coverage indicator	5	This composite image must include one row of 5 equal-sized images. The composite image must include the following component images, from left to right: • Wi-Fi off • Wi-Fi network unavailable • weak Wi-Fi signal • moderate Wi-Fi signal • strong Wi-Fi signal Example:
unread icons	10	This composite image must include one row of 10 equal-sized images that are displayed in the banner, indicating that there is an unread message associated with a BlackBerry device application. The composite image must include the following component images, from left to right: • email message • filed email message • voice mail message • saved web page request • calendar reminder • BlackBerry® Messenger message • SMS text message • anonymous message • task reminder • push channel update

Element	Component images	Description
		Example:

Message list images with multiple states

Element	Component images	Description
message icons	96	This composite image must include four rows of 24 equal-sized images, that represent all possible message types that the message list can display. The message list can contain messages of three types: email messages, SMS text messages, and MMS messages. The composite image must include the following component images, from left to right: • First row: empty slot, 3 images for incoming email messages (unread, read, error), 9 images for outgoing email message (composing, compressing, encrypting, completing, sending, sent, delivered, read acknowledged, and transmission error), 2 images for filed email messages (unread and read), empty slot, empty slot, 2 images for ring tone for incoming calls (unplayed and played), 2 images for incoming pager messages (unopened and opened), 2 images for messages with attachments (unread, read), 2 images for calendar reminders (unread and read), and 1 image for download attachment • Second row: empty slot, 3 images for incoming SMS text messages (unread, read, and error), 9 images for outgoing SMS text messages (composing, compressing, encrypting, completing, sending, sent, delivered, read acknowledged, and transmission error), 2 images for filed SMS text messages (unread and read), followed by 9 empty slots • Third row: empty slot, 2 images for incoming security messages (unread and read), empty slot, 2 images for incoming signed read receipt (unread and read), followed by 18 empty slots • Fourth row: empty slot, 3 images for incoming MMS messages (unread, read, and error), 9 images for outgoing MMS messages (composing, compressing, encrypting, completing, sending, sent, delivered, read acknowledged, and transmission error), 2 images for filed MMS messages (unread and read), followed by 9 empty slots Example:

Element	Component images	Description
web icons	6	This composite image must include one row of 6 equal-sized images, representing all the possible browser-related messages that appear in the messages list. The composite image must include the following component images, from left to right: • page request sending • page request pending • page request returned and unviewed • page request returned and viewed • error receiving page request • more options available Example:

Phone images that show multiple states

Element	Component images	Description
Phone (active call)	varied	This composite image must include a row of equal-sized component images to represent the different phone states. Example: The following BlackBerry® devices support 7 phone states: • BlackBerry® Pearl™ 8100 Series smartphone The following BlackBerry devices support 11 phone states: • BlackBerry® Torch™ 9800 smartphone • BlackBerry® Bold™ 9700 smartphone • BlackBerry® Tour™ 9600 Series smartphone • BlackBerry® Storm™ 9500 smartphone • BlackBerry® Pearl™ 9100 Series smartphone

Element	Component images	Description
		• BlackBerry® Bold™ 9000 smart phone • BlackBerry® Curve™ 8900 smartphone • BlackBerry® Pearl™ Flip 8200 Series smartphone The following BlackBerry devices support 13 phone states: • BlackBerry® 8800 Series smartphone • BlackBerry® 8700 Series smartphone • BlackBerry® Curve™ 8500 Series smartphone • BlackBerry® Curve™ 8350i smartphone • BlackBerry® Curve™ 8300 Series smartphone
Phone volume (active call)	11	This composite image must include a row of 11 images to represent the volume level. Example:

Best practice: Creating images

You must make the size of your theme file as small as possible to minimize the effects on the performance of the BlackBerry® device.

To create images that are optimized for use on BlackBerry devices, consider the following guidelines:

- Create images as .png files. During the export process, the BlackBerry Theme Builder converts all images that are not already .png files into 32-bit dithered .png files. This conversion process can increase the size of the resulting file, so you should create images as 32-bit dithered .png files so that the BlackBerry Theme Builder does not need to convert them.
- Create images at the optimal size. Where necessary, the BlackBerry Theme Builder scales images that are too large or too small and then anti-aliases the image to achieve the best possible appearance. Anti-aliasing an image significantly increases the file size of the image.
- Create images at the required height and width.

The BlackBerry device scales pattern tile images to the size of the control in the BlackBerry device interface.

Image sizes for the BlackBerry Torch 9800 smartphone

Screen element	Image	Image size in pixels
Banner	Home screen	360 x 60
	Home screen (landscape)	480 x 60

Screen element	Image	Image size in pixels
	Application list	360 x 21
	Application list (landscape)	480 x 21
	alarm indicator	11 x 13 to 21x 21
	new items indicator	21 x 21
	unread icons	composite image 252 x 21 component image 21 x 21
	focus icon	360 x 60
	focus icon (landscape)	480 x 60
	underlay focus for profiles icon	40 x 40
	overlay	21 x 21
	battery meter	composite image 396 x 32 component image 33 x 16
	signal meter	composite image 261 x 12 component image 29 x 12
Home screen	background	360 x 480
	background (landscape)	480 x 360
	search icon	32 x 32
Application list	tray, tray focus	360 x 40
	tray, tray focus (landscape)	480 x 40
	move icon	90 x 95
	tab, tab focus	90 x 95
Controls	dialog box icons	60 x 60
	dialog box background	40 x 40
	pop-up focus	80 x 75
	pop-up background	28 x 28
	group box body, group box title, group box title highlight	20 x 40
	buttons	60 x 72
	arrow normal, arrow highlight	20 x 8
	search field	23 x 21
	search field cursor	4 x 18
	menu arrow	4 x 18
	menu background	40 x 40
	menu cursor	193 x 29
	list cursor	360 x 42
Message list	background	480 x 56
	web icons	composite image 156 x 26

Screen element	Image	Image size in pixels
		component image 26 x 26
	message icons	composite image 624 x 104 component image 26 x 26
Phone	phone receiver (active phone call)	composite image 396 x 25 component image 36 x 25
	volume control (active phone call)	composite image 880 x 4 component image 80 x 4
	phone icons (phone hotlist)	composite image 522 x 29 component image 29 x 29
	button active, button focus, button disabled (phone hotlist)	120 x 54
	button, button focus (active call)	180 x 78
	button focus (incoming call)	360 x 78
	button, button focus landscape (incoming call)	480 x 78
	background (incoming call)	480 x 360
Lock screen	background	360 x 480
	background (landscape)	480 x 360
	lock icon	68 x 68
Global images	transmission arrows	12 x 12
	Alt mode, NUM lock, CAP lock	33 x 33
	multi-tap	33 x 33
	navigation arrows	19 x 9
	hourglass cursor	28 x 28 to 50 x 50

Image sizes for the BlackBerry Style 9670 smartphone

Screen element	Image	Image size in pixels
Banner	Home screen	360 x 60
	Application list	360 x 21
	active connection	14 x 16
	alarm indicator	11 x 13 to 13 x 13
	battery meter	composite image 396 x 32 component image 33 x 16
	focus icon	360 x 60
	new items indicator	25 x 22
	signal meter	composite image 261 x 12

Screen element	Image	Image size in pixels
		component image 29 x 12
	underlay focus for profiles icon	36 x 36
	unread icons	composite image 325 x 22 component image 25 x 22
	Wi-Fi® signal meter	composite image 108 x 15 component image 18 x 15
Home screen	background	360 x 400
	focus	360 x 35
	search icon	32 x 32
	tab, tab focus	72 x 72
Application list	tray, tray focus	360 x 38
	application icons	72 x 72
	move icon	72 x 72
Controls	dialog box icons	60 x 60
	dialog box background	tiled image
	pop-up focus	80 x 75
	pop-up background	28 x 28
	group box body group box title group box title highlight	tiled image
	button normal button active button disabled button highlight buttons disabled highlight	tiled image
	title bar background	360 x 21
	arrow normal arrow highlight	20 x 8
	search field	tiled image
	search field cursor	4 x 18
	menu arrow	15 x 12
	menu background	40 x 40
	menu cursor	193 x 29
	list cursor	360 x 42
Message list	background	360 x 29
	web icons	composite image 174 x 29

Screen element	Image	Image size in pixels
		component image 29 x 29
	message icons	composite image 696 x 116 component image 29 x 29
Phone	phone receiver (active phone call)	composite image 396 x 25 component image 36 x 25
	volume control (active phone call)	composite image 880 x 4 component image 80 x 4
	phone icons (phone hotlist)	composite image 522 x 29 component image 29 x 29
	phone icons (active call)	120 x 54
	button, button focus (active call)	180 x 70
	button focus (incoming call)	360 x 70
	button, button focus landscape (incoming call)	480 x 78
	background (incoming call)	360 x 400
	background (active call)	360 x 400
Lock screen	background	360 x 400
	lock icon	68 x 68
Global images	transmission arrows	15 x 15
	Alt mode, NUM lock, CAP lock	33 x 33
	navigation arrows	19 x 9
	hourglass cursor	26 x 26

Image sizes for the BlackBerry Bold 9780 smartphone

Screen element	Image	Image size in pixels
Banner	Home screen	480 x 70
	Application list	480 x 21
	underlay focus for profiles icon	36 x 36
	alarm indicator	11 x 13, 13 x 13, or 15 x 15
	new items indicator	25 x 22
	unread icons	composite image 252 x 21 component image 21 x 21
	focus icon	480 x 70
	battery meter	composite image 396 x 32 component image 33 x 16

Screen element	Image	Image size in pixels
		to composite image 468 x 38 component image 39 x 19
	signal meter	composite image 261 x 12 component image 29 x 12 to composite image 306 x 14 component image 34 x 14
	Wi-Fi® signal meter	composite image 108 x 15 component image 18 x 15 to composite image 132 x 18 component image 22 x 18
Home screen	background	480 x 360
	search icon	32 x 32
Application list	tray, tray focus	480 x 35
	icons	80 x 72
	move icon	80 x 72
Controls	dialog box icons	60 x 60
	dialog box background	tiled image
	pop-up focus	80 x 75
	pop-up background	28 x 28
	group box body group box title group box title highlight	tiled image
	button normal button active button disabled button highlight buttons disabled highlight	tiled image
	arrow normal arrow highlight	20 x 8
	search field	tiled image

Screen element	Image	Image size in pixels
	search field cursor	4 x 18
	menu arrow	15 x 12
	menu background	40 x 40
	menu cursor	193 x 29
	list cursor	360 x 42
Message list	background	480 x 56
	web icons	composite image 162 x 27 component image 27 x 27
	message icons	composite image 624 x 104 component image 26 x 26
Phone	button, button focus (active call)	120 x 78
	button focus (incoming call)	480 x 78
	background (incoming call)	480 x 360
	background (active call)	480 x 360
	volume control (active phone call)	composite image 880 x 4 component image 80 x 4
	phone icons (hotlist)	composite image 522x 29 component image 29 x 29
	phone icons (active call)	50 x 40
Lock screen	background	480 x 360
	lock icon	68 x 68
Global images	Alt mode, NUM lock, CAP lock	33 x 33
	hourglass cursor	26 x 26
	navigation arrows	19 x 9
	transmission arrows	12 x 12

Image sizes for the BlackBerry Bold 9700 smartphone and BlackBerry Bold 9650 smartphones

You can use the image sizes in the BlackBerry® 6 column to create themes for Custom 6 and BlackBerry 6 theme layouts. You can use the image sizes in the BlackBerry® Device Software 5.0 column to create themes for Custom, Zen, and Today theme layouts.

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
Banner	Home screen	480 x 70	480 x 75
	Application list	480 x 21	480 x 48

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
	underlay focus for profiles icon	36 x 36	60 x 60
	alarm indicator	11 x 13, 13 x 13, or 15 x 15	11 x 13 or 21 x 21
	new items indicator	25 x 22	21 x 21
	unread icons	composite image 252 x 21 component image 21 x 21	composite image 210 x 21 component image 21 x 21
	focus icon	480 x 70	60 x 60
	battery meter	composite image 396 x 32 component image 33 x 16 to composite image 468 x 38 component image 39 x 19	composite image 528 x 40 component image 44 x 20
	signal meter	composite image 261 x 12 component image 29 x 12 to composite image 306 x 14 component image 34 x 14	composite image 315 x 14 component image 35 x 14
	Wi-Fi® signal meter	composite image 108 x 15 component image 18 x 15 to composite image 132 x 18 component image 22 x 18 (6 states)	composite image 175 x 14 component image 35 x 14 (5 states)
Home screen	background	480 x 360	480 x 360
	search icon	32 x 32	—
	tab tab focus	35 x 35	36 x 36
	cursor (today)	480 x 35	480 x 28
Controls	dialog box icons	60 x 60	60 x 60
	dialog box background	tiled image	tiled image
	pop-up focus	80 x 75	—

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
	pop-up background	tiled image	—
	group box body group box title group box title highlight	tiled image	—
	button normal button active button disabled button highlight buttons disabled highlight	tiled image	tiled image
	arrow normal arrow highlight	20 x 8	20 x 8
	search field	tiled image	tiled image
	search field cursor	4 x 18	7 x 31
	menu arrow	15 x 12	—
	menu background	tiled image	40 x 40
	menu cursor	193 x 29	234 x 30
	list cursor	360 x 42	tiled image
Message list	background	480 x 56	480 x 42
	web icons	composite image 162 x 27 component image 27 x 27	composite image 156 x 26 component image 26 x 26
	message icons	composite image 624 x 104 component image 26 x 26	composite image 624 x 104 component image 26 x 26
Phone	button, button focus (active call)	120 x 78	—
	button focus (incoming call)	480 x 78	—
	background (incoming call)	480 x 360	480 x 360
	background (active call)	480 x 360	480 x 360
	volume control (active phone call)	composite image 880 x 4 component image 80 x 4	composite image 990 x 100

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
			component image 90 x 100
	phone icons (hotlist)	composite image 522x 29 component image 29 x 29	composite image 880 x 80 component image 80 x 80
	6.0 phone icons (active call)	composite image 396 x 25 component image 36 x 25	composite image 880 x 80 component image 80 x 80
Lock screen	background	480 x 360	480 x 360
	lock icon	68 x 68	
Global images	transmission arrows	12 x 12 to 50 x 30	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock	33 x 33 to 50x 50	30 x 30 to 50x 50
	navigation arrows	19 x 9 to 28 x 18	15 x 11 to 28 x 18
	hourglass cursor	26 x 26 to 50 x 50	28 x 28 to 50 x 50

Image sizes for the BlackBerry Storm 9500 smartphone

Screen element	Image	Image size in pixels
Banner	background	360 x 48
	new items indicator	21 x 21
	focus icon	48 x 48
	battery meter	variable (multistate image)
	signal meter	variable (multistate image)
Home screen (Zen theme)	background	360 x 480
	tab, tab focus	90 x 96
	new items indicator	73 x 73
	application menu, application icon	73 x 73
Controls	dialog box icons	60 x 60
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)
Phone	phone receiver	variable (multistate image)
	volume control	variable (multistate image)
	incoming call background	360 x 480

Screen element	Image	Image size in pixels
Lock screen	background	360 x 480
Global images	transmission arrows	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock	30 x 30 to 50x 50
	multi-tap	32 x 30 to 50x 50
	navigation arrows	15 x 11 to 28 x 18
	hourglass cursor	28 x 28 to 50 x 50

Image sizes for the BlackBerry Curve 9300 and BlackBerry Curve 9330 smartphones

You can use the image sizes in the BlackBerry® 6 column to create themes for Custom 6 and BlackBerry 6 theme layouts. You can use the image sizes in the BlackBerry® Device Software 5.0 column to create themes for Custom, Zen, and Today theme layouts.

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
Banner	Home screen, Home screen focus	320 x 46	320 x 50
	Application list	320 x 13	320 x 36
	alarm indicator	9 x 9	9 x 8 to 12 x 12
	battery meter	composite image 252 x 20 component image 21 x 10	composite image 360 x 28 component image 30 x 14
	new items indicator	17 x 15 to 25 x 22	14 x 14
	signal meter	composite image 216 x 10 component image 24 x 10	composite image 225 x 12 component image 25 x 12
	underlay focus for profiles icon	36 x 36	36 x 36
	unread icons	composite image 221 x 15 component image 17 x 15	composite image 140 x 14 component image 14 x 14
	Wi-Fi® signal meter	composite image 72 x 10 component image 12 x 10 (6 states)	composite image 140 x 11 component image 28 x 11 (5 states)
Home screen	background	320 x 240	320 x 240
	focus	320 x 23	320 x 22
	search button	20 x 20	—
	tab, tab focus (Today)	23 x 23	32 x 32

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
	tab, tab focus (Zen)	50 x 50	52 x 52
	cursor (today)	320 x 23	320 x 22
Application list	background	—	320 x 240
	focus, move glow, underlay, overlay icons	52 x 50	52 x 52
	tray highlight	320 x 21	—
	Zen icon, Zen focus icon	52 x 52	52 x 52
Controls	dialog box icons	40 x 40	40 x 40
	dialog box background	tiled image	tiled image
	title background	tiled image	tiled image
	title caret	—	11 x 24
	button normal button active button disabled button highlight button disabled highlight	tiled image	tiled image
	arrow normal arrow highlight	20 x 8	20 x 8
	pop-up menu background	tiled image	—
	pop-up focus	62 x 58	—
	group box body group box title group box highlight	tiled image	—
	search field	tiled image	tiled image
	search field cursor	4 x 18	6 x 20
	menu arrow	19 x 12	—
	menu background	tiled image	tiled image
	menu cursor	153 x 22	147 x 20
	list cursor	320 x 38	320 x 38
Message list	background	tiled image	320 x 28
	web icons	composite image 144 x 24 component image 24 x 24	composite image 120 x 20 component image 20 x 20
	message icons	composite image 576 x 96 component image 24 x 24	composite image 480 x 80 component image 20 x 20

Screen element	Image	Image size in pixels BlackBerry 6	BlackBerry® Device Software 5.0
Phone	phone receiver (active phone call)	composite image 264 x 17 component image 24 x 17	composite image 676 x 52 component image 52 x 52
	volume control (active phone call)	composite image 660 x 4 component image 60 x 4	composite image 495 x 50 component image 45 x 50
	button (active phone call) button focus (active phone call)	80 x 50	—
	button (incoming call) button focus (incoming call)	320 x 50	—
	phone icons (phone hotlist)	composite image 522 x 29 component image 29 x 29	composite image 380 x 20 component image 20 x 20
	background (incoming, active call)	320 x 240	320 x 240
Lock screen	background	320 x 240	320 x 240
	lock icon	44 x 44	52 x 52
Global images	transmission arrows	10 x 10	22 x 22
	Alt mode, NUM lock, CAP lock	20 x 20 to 30 x 29	21 x 20 to 30 x 29
	navigation arrows	19 x 9 to 28 x 18	10 x 7 to 28 x 18
	hourglass	17 x 17 to 50 x 50	19 x 19 to 50 x 50

Image sizes for the BlackBerry Pearl 9100 Series smartphones

You can use the image sizes in the BlackBerry® 6 column to create themes for Custom 6 and BlackBerry 6 theme layouts. You can use the image sizes in the BlackBerry® Device Software 5.0 column to create themes for Custom, Zen, and Today theme layouts.

Screen element	Image	Image size in pixels BlackBerry 6	Image size in pixels BlackBerry® Device Software 5.0
Banner	Home screen	360 x 60	360 x 96
	Application list	360 x 21	360 x 48
	alarm indicator	13 x 13	11 x 13

Screen element	Image	Image size in pixels BlackBerry 6	Image size in pixels BlackBerry® Device Software 5.0
	new items indicator	25 x 22	21 x 21
	cursor	360 x 60	—
	battery meter	composite image 396 x 32 component image 33 x 16	composite image 528 x 40 component image 44 x 20
	signal meter	composite image 261 x 12 component image 29 x 12	composite image 315 x 14 component image 35 x 14
	Wi-Fi® signal meter	composite image 108 x 15 component image 18 x 15 (6 states)	composite image 175 x 14 component image 35 x 14 (5 states)
	underlay focus for profiles icon	36 x 36	48 x 48
	unread icons	composite image 325 x 22 component image 25 x 22	composite image 210 x 21 component image 21 x 21
Home screen	background	360 x 400	360 x 400
	search icon	32 x 32	—
	tab, tab focus	35 x 35	72 x 72
	cursor (today)	360 x 29	360 x 28
Application list	tray, tray focus	360 x 38	—
	application icons	72 x 72	72 x 72
	move icon	72 x 72	72 x 72
Controls	dialog box icons	60 x 60	60 x 60
	dialog box background	tiled image	tiled image
	pop-up focus	80 x 75	—
	group box body group box title group box title highlight	tiled image	—
	button normal	tiled image	tiled image

Screen element	Image	Image size in pixels BlackBerry 6	Image size in pixels BlackBerry® Device Software 5.0
	button active button disabled button highlight buttons disabled highlight		
	title bar background	tiled image	tiled image
	title bar caret	360 x 21	360 x 22
	arrow normal arrow highlight	20 x 8	20 x 8
	search field	tiled image	tiled image
	search field cursor	4 x 18	4 x 18
	list cursor	360 x 42	360 x 42
	menu cursor	193 x 29	157 x 20
	menu arrow	15 x 12	—
	menu background	tiled image	tiled image
Message list	background	tiled image	tiled image
	web icons	composite image 174 x 29 component image 29 x 29	composite image 144 x 24 component image 24 x 24
	message icons	composite image 696 x 116 component image 29 x 29	composite image 576 x 96 component image 24 x 24
Phone	phone receiver (active phone call)	composite image 396 x 25 component image 36 x 25	composite image 440 x 40 component image 40 x 40
	volume control (active phone call)	composite image 880 x 4 component image 80 x 4	composite image 990 x 100 component image 90 x 100
	phone icons (phone hotlist)	composite image 522 x 29 component image 29 x 29	composite image 456 x 24

Screen element	Image	Image size in pixels BlackBerry 6	Image size in pixels BlackBerry® Device Software 5.0
			component image 24 x 24
	phone icons (active call)	50 x 40	—
	button, button focus (active call)	180 x 70	—
	button focus (incoming call)	360 x 70	—
	background (incoming call)	360 x 400	360 x 400
	background (active call)	360 x 400	360 x 400
Lock screen	background	360 x 400	360 x 400
	lock icon	68 x 68	72 x 72
Global images	transmission arrows	15 x 15 to 50 x 30	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock	30 x 30	30 x 30
	navigation arrows	19 x 9 to 28 x 18	16 x 11 to 28 x 18
	hourglass	26 x 26 to 50 x 50	28 x 28 to 50 x 50

Image sizes for the BlackBerry Tour Series, BlackBerry Curve 8900, and BlackBerry Curve 8910 smartphones

You can use the image sizes to create themes for Custom, Zen, and Today theme layouts.

Screen element	Image	Image size in pixels
Banner	background	480 x 48
	new item indicator	21 x 21
	focus icon	60 x 60
	battery meter	composite image 528 x 40 component image 44 x 10
	signal meter	composite image 315 x 14 component image 35 x 14
Home screen	background	480 x 360
	tab tab focus	80 x 80
	new item indicator	80 x 80
	application menu application icon	80 x 80
Controls	dialog box icons	60 x 60

Screen element	Image	Image size in pixels
	dialog box background, dialog box buttons (all states), menu background, title bar background	tiled image
Message list	background	480 x 42
	web icons	composite image 156 x 26 component image 26 x 26
	message icons	composite image 624 x 104 component image 26 x 26
Phone	phone receiver	composite image 880 x 80 component image 80 x 80
	volume control	composite image 990 x 100 component image 90 x 100
	incoming call background	480 x 360
Lock screen	background	480 x 360
Global images	transmission arrows	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock	30 x 30 to 50x 50
	multi-tap	32 x 30 to 50x 50
	navigation arrows	15 x 11 to 28 x 18
	hourglass cursor	28 x 28 to 50 x 50

Image sizes for the BlackBerry Bold 9000 smartphone

Screen element	Image	Image size in pixels
Banner	background	480 x 48
	new item indicator	21 x 21
	focus icon	60 x 60
	battery meter	variable (multistate image)
	signal meter	variable (multistate image)
Home screen (Zen theme)	background	480 x 320
	tab, tab focus	80 x 80
	new item indicator	80 x 80
	application menu, application icon	80 x 80
Controls	dialog box icons	60 x 60
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)

Screen element	Image	Image size in pixels
Phone	phone receiver	variable (multistate image)
	volume control	variable (multistate image)
	incoming call background	480 x 320
Lock screen	background	480 x 320
Global images	transmission arrows	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock	30 x 30 to 50 x 50
	multi-tap	32 x 30 to 50 x 50
	navigation arrows	16 x 11 to 28 x 18
	hourglass cursor	28 x 28 to 50 x 50

Image sizes for the BlackBerry Curve 8300, and BlackBerry 8800 Series smartphones

Screen element	Image	Image size in pixels
Banner	background	320 x 50
	new item indicator	14 x 14
	focus icon	48 x 36
	battery meter	variable (multistate image)
	signal meter	variable (multistate image)
Home screen (Icon theme)	background	320 x 240
	icons, focus icon	53 x 48
	new item indicator	48 x 36
Home screen (Zen theme)	background	320 x 240
	tab, tab focus	56 x 38
	new item indicator, application menu, application icon	48 x 36
Home screen (Today theme)	background	320 x 240
	caret image	320 x 28
	new item indicator	48 x 36
	application menu	32 x 24
	application icon	48 x 36
Controls	dialog box icons	39 x 41
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)
Phone	phone receiver	variable (multistate image)
	volume control	variable (multistate image)

Screen element	Image	Image size in pixels
	incoming call background	320 x 240
Lock screen	background	320 x 240
Global images	transmission arrows	26 x 15 o 50 x 30
	Alt mode	23 x 17 to 50 x 24
	NUM lock, CAP lock	32 x 20 to 50 x 24
	multi-tap	40 x 25 to 50 x 24
	navigation arrows	16 x 9 to 28 x 18
	hourglass cursor	36 x 36 to 50 x 50

Image sizes for the BlackBerry Curve 8350i smartphone

Screen element	Image	Image size in pixels
Banner	background	320 x 36
	focus icon	36 x 36
	battery meter	variable (multistate image)
	alarm icon	9 x 8
	new items indicator	14 x 14
	signal meter	variable (multistate image)
	Wi-Fi® signal meter	variable (multistate image)
	unread icons	variable (multistate image)
Home screen (Zen theme)	background	320 x 240
	tab, tab focus	52 x 52
	new items indicator	52 x 52
	underlay	52 x 52
	move icon	52 x 52
Controls	dialog box icons	40 x 40
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)
	icons	variable (multistate image)
	web icons	variable (multistate image)
Phone	phone receiver	variable (multistate image)
	volume control	variable (multistate image)
	incoming call background	320 x 240
	active call background	320 x 240
Lock screen	background	320 x 240
	lock icon	52 x 52
Global images	transmission arrows	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock, multi-tap	21 x 20 to 30 x 29

Screen element	Image	Image size in pixels
	navigation arrows	10 x 7 to 28 x 18
	hourglass cursor	19 x 19 to 50 x 50

Image sizes for the BlackBerry Pearl 8220 smartphone

Screen element	Image	Image size in pixels
Banner	background	240 x 55
	new item indicator	16 x 16
	focus icon	46 x 46
	battery meter	variable (multistate image)
	signal meter	variable (multistate image)
Home screen (Zen theme)	background	240 x 320
	tab, tab focus	46 x 46
	new item indicator	49 x 49
	application menu, application icon	46 x 46
Controls	dialog box icons	40 x 40
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)
Phone	phone receiver	variable (multistate image)
	volume control	variable (multistate image)
	incoming call background	240 x 320
Lock screen	background	240 x 320
Global images	transmission arrows	22 x 22 to 50 x 30
	Alt mode, NUM lock, CAP lock	30 x 30
	multi-tap	30 x 30
	navigation arrows	16 x 11 to 28 x 18
	hourglass cursor	28 x 28 to 50 x 50

Image sizes for the BlackBerry Pearl 8100 Series smartphone

Screen element	Image	Image size in pixels
Banner	background	260 x 65
	new item indicator	14 x 14
	focus icon	48 x 36

Screen element	Image	Image size in pixels
	battery meter	variable (multistate image)
	signal meter	variable (multistate image)
Home screen (Icon theme)	background	240 x 260
	icons, focus icon	60 x 55
	new item indicator	48 x 36
Home screen (Zen theme)	background	240 x 260
	tab, tab focus	56 x 38
	new item indicator, application menu, application icon	48 x 36
Home screen (Today theme)	background	240 x 260
	caret	240 x 28
	new item indicator	48 x 36
	application menu	32 x 24
	application icon	48 x 36
Controls	dialog box icons	39 x 41
	dialog box background, dialog box buttons (all states), menu background, title bar background	variable (pattern tile image)
Message list	background	variable (pattern tile image)
Phone	phone receiver	variable (multistate image)
	volume control	variable (multistate image)
	incoming call background	240 x 260
Lock screen	background	240 x 260
Global images	transmission arrows	26 x 15 to 50 x 30
	Alt mode	23 x 17 to 50 x 24
	NUM lock, CAP lock	32 x 20 to 50 x 24
	multi-tap	40 x 25 to 50 x 24
	navigation arrows	16 x 9 to 28 x 18
	hourglass cursor	32 x 32 to 50 x 50

Using catalogs to manage theme images and colors

You can use the BlackBerry® Theme Builder catalogs to save images and colors so that you can use them again later. You can add images and colors, including gradient colors, to the Catalog panel to create a collection of resources that you can access at any time.

If you want to create themes for various BlackBerry device models and you want to use similar background images and colors on each device, you can create the first theme, then drag the images and colors from the theme into a catalog. When you create a theme for a different BlackBerry device, you can use the catalog with the images that you added. You can select an image or color from the catalog and drag it to an image or color on the Inspector to change the image or color.

The BlackBerry Theme Builder includes the following default catalogs:

- tiled images that stores images along with their border and tiling definitions
- static images
- predefined colors
- sample scaled images for various screen sizes
- sample banner meters, hour glasses, and volume meters

You can create additional catalogs and specify the types of items that you can store in catalogs.

Create a catalog

1. If the Catalog pane is not open, on the **Window** menu, click **Catalog**.
2. In the upper-right corner of the **Catalog** pane, click the **Catalog Options** button.
3. Click **New**.
4. In the **Catalog Name** field, type a unique name for the catalog.
5. Select the check boxes for the items that you want to add to the catalog.
   - To permit only colors in the catalog, select the **Colors** check box.
   - To permit only tiled images in the catalog, select the **Tiled Images** check box
   - To permit only static images in the catalog, select the **Images** check box.
   - To permit colors, tiled images, and static images in the catalog, select the **All** check box.
6. Click **OK**.

Add items to a catalog

If you try to drag an item to a catalog that does not permit that type of item, the BlackBerry® Theme Builder adds the item to the appropriate default catalog automatically. For example, if you try to add a color to a catalog that only permits images, the BlackBerry Theme Builder adds the color to the default color catalog.

Click and drag an item from a folder into the **Catalog** pane.

Add an image or color from a catalog to a theme

Perform one of the following actions:

- To add an image from a catalog to the theme, drag the image from the **Catalog** panel to the image you want to replace on the **Quick Edit** bar.
- To add a color from a catalog to the theme, drag the color swatch from the **Catalog** panel to the color you want to replace on the **Quick Edit** bar.

Delete items from a catalog

1. In the **Catalog** pane, click the item that you want to delete.
2. In the upper-right corner of the **Catalog** pane, click the **Delete Catalog Item** button.

Open a catalog

In the **Catalog** drop-down list, click a catalog.

Change a catalog

1. In the corner of the **Catalog** pane, click the **Catalog Options** button.
2. Click **Edit**.
3. Change the name of the catalog or the types of items that you can add to the catalog.
4. Click **OK**.

Delete a catalog

1. In the **Catalog** drop-down list, click the catalog that you want to delete.
2. In the upper-right corner of the **Catalog** pane, click the **Catalog Options** button.
3. Click **Delete**.
4. Click **Yes**.

Changing fonts for themes

5

You can change fonts throughout your theme. You can specify a font for dialog boxes, buttons, lists, and the phone and message applications from one location. You can adjust the base font as necessary or choose a different font for a theme element.

To achieve a consistent look throughout your theme, use fonts from the same font family and make minor adjustments to color and size where appropriate.

There are three types of fonts, each of which is identified by an icon adjacent to the font name in the drop-down list. Different font types have different levels of customization:

Font type	Description
BlackBerry® fonts	You can change the fill color and, where applicable, the stroke color. You can also specify the style (bold, italic, and anti-alias). The font size for BlackBerry fonts must be in pixels.
TrueType fonts	You can change the fill and, where applicable, the stroke color. You can specify the style (bold, italic, and anti-alias). If bold and italic styles for a font is not available on your computer, the BlackBerry Theme Builder uses the plain style instead. The font size for TrueType fonts must be in pixels.
XFONT® fonts	The amount of customization varies; in some cases, you cannot customize any font settings, in others, you can customize some or all font settings. You cannot adjust the size of XFONT fonts.

Font settings

Setting	Description
Size	The font size specifies the height of the text, in pixels.
Fill color	You can apply a fill color to BlackBerry® fonts and TrueType fonts. To display the color selector, click the fill swatch.
Bold	You can apply the bold font setting to any BlackBerry or TrueType font. However, if you apply the bold style to a TrueType font, but no bold version of the selected font exists on your computer, this setting has no effect.
Italic	You can apply the italic font setting to any BlackBerry or TrueType font. However, if you apply the italic style to a TrueType font, but no italic or oblique version of the selected font exists on your computer, this setting has no effect.
Anti-aliasing	The anti-alias setting smooths the edges of fonts, which typically improves the legibility of the text. You can apply this setting to any BlackBerry or TrueType font.

Setting	Description
Stroke color	The stroke color specifies the color of the outline of the text. This setting is only available for text elements on the following Inspector panels: Banner, Home Screen, Icon grid, and Lock screen. When this setting is available, you can apply it to any BlackBerry font or TrueType font. The bold setting does not affect the thickness of the font stroke.
Highlight font	The highlight font specifies the font to use when BlackBerry device users highlight menu items when dialog boxes appear. This setting is available only for menu items or dialog boxes.

Change fonts for multiple screens

You can change all the fonts on one screen or on multiple screens in the theme simultaneously.

1. On the **Edit** menu, click **Change fonts**.
2. Change the font settings.
3. To change the font for all screens, select the **All Sections** check box.
4. To change the font for specific screens, select the check boxes for the screens that you want to change the fonts for.
5. To see the changes without closing the **Change Fonts** dialog box, click **Apply**.
6. Click **OK**.

Change text settings for an element

By default, the AM/PM element uses the same font family and font settings as the Time element. You can specify the size for the AM/PM element only if you specify a TrueType font for the Time element.

1. In the preview area of the canvas, click the element that you want to change the text settings for.
2. On the **Quick Edit** bar, select the font, font size, and font style.
3. To change the font color, on the **Quick Edit** bar, click the **Fill** box and select a color.
4. To change the font outline, on the **Quick Edit** bar, click the **Stroke** box.

Best practice: Using fonts effectively in themes

- To achieve a consistent look throughout your theme, you should use fonts that are from the same font family, and make minor adjustments to color and size, where appropriate.
- You can set a default font for use across the theme, so that you need only adjust font characteristics such as size and color. You then have to set the font family only in those cases where a different font style is appropriate.
- You should limit the number of TrueType fonts in your theme. With the exception of BB Alpha fonts, the BlackBerry® device does not support TrueType fonts. The BlackBerry Theme Builder converts all the glyphs in other TrueType font sets into a series of bitmaps. Any change to the properties of a TrueType font requires a

complete set of bitmaps. For example, if you use the same TrueType font in a menu, but you specify different colors for the highlighted text and normal text, the BlackBerry Theme Builder must generate two complete sets of bitmaps.

- As with images, you should use a limited color palette for fonts. Consider the background color as well; text becomes illegible when displayed on a background of a similar color or brightness. Consider using the same color for highlighted text on all controls.
- You should use bold text when text needs added emphasis, such as in a highlighted menu item.
- Italicized text can interfere with readability; you should use it sparingly.
- Anti-aliasing smooths the font edges, typically improving the appearance and legibility of the font; however, it also increases the size of the theme file. Note that with very small fonts, anti-aliasing can create a blurred effect, and can actually decrease the legibility of the font.

Using colors

6

You can use the color selector to specify the color of a theme element or to define and save a palette of custom colors. You can also save custom colors by dragging colors from the Inspector pane to the Catalog pane.

Change the color of a theme element

1. Click a color swatch.
2. In the **Color Picker** dialog box, perform one of the following actions:

Task	Steps
Specify an RGB color.	On the **RGB** tab, move the **Red**, **Green**, and **Blue** color slide bars to adjust the color.
Specify the hue, saturation, and brightness of a color.	On the **HSB** tab, move the **Hue**, **Saturation**, and **Brightness** slide bars to adjust the color.
Select a color from the color wheel.	a. On the **Wheel** tab, move the slide bar on the luminosity scale at the right. b. Drag the pointer in the color wheel to the color that you want. Each pixel in the wheel represents a different color.
Specify a CMYK color.	On the **CMYK** tab, move the **Cyan**, **Magenta**, **Yellow**, and **Black** slide bars to adjust the color.
Specify a color that all platforms and browsers support.	On the **Web** tab, click a web-safe color.
Select a color sample from anywhere on the screen.	a. Click the **eyedropper** button to change the cursor to the eyedropper tool. b. Move the eyedropper tool anywhere on the screen. The color selection box changes as you drag the eyedropper tool. c. Click the color that you want to use.

3. To convert the selected color to the closest web-safe color, select the **Web safe** check box.
4. To save a color to the custom color palette, click the color that appears in the color selection box and drag it to any color swatch on the custom color palette.
5. Perform one of the following actions:
   - To apply the color to the theme element without closing the color selector, click **Apply**.
   - To apply the color and close the color selector, click **OK**.

Customizing the Home screen

7

The Home screen for each available base theme is unique and is the primary difference between the base themes. You can customize different elements depending on the theme layout that you choose.

BlackBerry® 6 layout types include a Today Home screen that provides a quick view of email messages and phone calls. If you choose a Zen layout type, the Home screen displays application icons along the bottom of the BlackBerry® device screen. The Home screen with a Today layout displays notification items such as messages along with a view of the most recent notifications. With Custom and Custom 6 layout types, you can add both Zen and Today items on the Home screen. The Home screen for an Icon layout type displays a list of applications only.

Change the Home screen wallpaper

1. In the **Inspector**, click the **Home screen** button.
2. In the preview area of the canvas, click the background image.
   An outline appears around the background image.
3. On the **Quick Edit** bar, in the **Home screen Background** drop-down list, click **Change Image**.
4. Click **Background**.
5. Click the **Image File** folder and navigate to an image.
6. Click **Open**.
7. Click **OK**.

Add an animation to the Home screen

You can use an .svg file created using BlackBerry® Composer or you can add an animated .gif file to add an animation to the Home screen.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Background** drop-down list, click **Change Image**.
3. To add an .svg file, click **SVG** and navigate to a file.
4. To add an animated .gif file, click **Animated GIF** and navigate to a file.
5. Click **Open**.
6. Click **OK**.

Create a slide show for your wallpaper

You can create a slide show of images for your wallpaper in themes with either a BlackBerry® 6 or a Custom 6 layout. You can use the following types of images in your slide show: BMP, JPG, PNG, TIF, and GIF.

1. In the **Inspector**, click the **Home screen** button.
2. On the **Quick Edit bar**, in the **Home Screen** section, click the **Background Wizard** button.

3. Click **Slideshow**.
4. In the **Slides** section, click **Add**.
5. In the **Open** dialog box, click the images that you want to include in the wallpaper.
6. Click **Open**.
7. In **Time Between Slides**, click the up and down arrows to choose how long you want to display an image and click the drop-down list to select the unit of time.
8. To change the order of the images in your slide show, in the **Slides** area, drag an image to a new location.
9. To delete an image from the slide show, click the image and click **Remove**.
10. Click **Finish**.

Create a wallpaper that changes on specific dates or time

You can create a wallpaper that changes on specific dates or time only for themes with a BlackBerry® 6 layout.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, click the **Background Wizard** button.
3. Click **Event-Based**.
4. In the **Slides** section, click **Add**.
5. In the **Open** dialog, click the images that you want to include in the wallpaper.
6. Click **Open**.
7. In the **Slides** section, click an image.
8. Do one of the following:
   - To show the image every day on the BlackBerry device, select the **Every Day** option, and click the up and down arrows to specify the time.
   - To show the image weekly on a specific day on the device, select the **Every Week On** option, and select the day of the week and time that you want to show the image.
   - To show the image on the device for a specific period, select the **On date** option, and select the start and end dates of the period, and the time of day that you want to show the image.
9. Repeat steps 7 and 8 for each image that you added.
10. To change the order of the images in the wallpaper, in the **Slides** area, drag an image to a new location.
11. To delete an image from the wallpaper, click the image and click **Remove**.
12. Click **Finish**.

Change the font settings for the Home screen

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click on one or more text elements.
3. On the **Quick Edit** bar, select the font, font size, and font style.

4. To change the font color, on the **Quick Edit** bar, click the **Fill** box and click a color.
5. To change the font outline, on the **Quick Edit** bar, click the **Stroke** box and click a color.
6. To change the text alignment, on the **Quick Edit** bar, click the **Alignment** button.

Customizing a Today theme Home screen

Change the images on the Home screen for Today applications

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click the Today application.
3. Do any of the following:
   - To change the image that displays under applications on the Home screen, on the **Quick Edit** bar, click the **Cursor** image.
   - To change the image that displays under application items on the Home screen, on the **Quick Edit** bar, click the **Subcursor**.
4. Navigate to an image.
5. Click **Open**.

Specify the applications that appear on the Home screen with a Today layout

The Today theme displays three application icons on the Home screen, by default (Messages, Calendar, and Call Log). You can add as many applications as you like to the Today Applications list; however, the BlackBerry® Theme Builder only displays as many as will fit on the screen.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, click **Today Applications** button.
3. In the **Today Application List** dialog box, drag the applications that you want from the right pane to the left pane.
4. Click **OK**.

Customizing a Zen theme Home screen

Change the images on the Home screen for a Zen layout type

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click an application image and perform one of the following actions:
   - To change the image that is displayed in front or behind application icons on the Home screen, on the **Quick Edit** bar, click the **Tab** drop-down list.

- To change the image that is displayed in front or behind the application icon that the user selects, on the **Quick Edit** bar, click the **Tab Focus** drop-down list.

3. Click **Change Image**.
4. Navigate to an image.
5. Click **Open**.
6. To display the Tab image or Tab Focus image in front of an application icon, in the **Inspector**, select the **Overlay** option.
7. To display the Tab image or Tab Focus image behind an application icon, in the **Inspector**, select the **Underlay** option.

Specify the applications that appear on the Home screen with a Zen layout

1. In the **Inspector**, click the **Home Screen** button.
2. From the **Application List**, drag a BlackBerry® device application to the **Zen Applications** list.
3. To replace an application in the list, drag an application directly over the application that you want to replace
4. To add an application to the list, drag the application onto the line that separates any two applications. The first or last application in the list is removed, depending on which side of the separator you drag the application to.

Customizing a Home screen with a BlackBerry 6 theme layout

You can customize the Home screen of a theme with a BlackBerry® 6 layout by using the same elements that you use for other BlackBerry devices. You can change the UI elements that are specific to devices that are running BlackBerry® 6, such as changing the appearance of the Search field and the Today items.

Change the image of the Search icon

You can change the image for the Search icon in a theme with a BlackBerry® 6 layout. BlackBerry device users can use the search field on the Home screen to search for items in any application on the device, including third-party applications.

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click the **Search** icon.
3. On the **Quick Edit** bar, in the **Search Icon** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.

Change the background color of the Notification bar

You can change the color of the background of the Notification bar in a theme with a BlackBerry® 6 layout.

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click the Notification bar.
3. On the **Quick Edit** bar, in the **Notify Background** drop-down list, click **Change Image**.
4. Click **Color** or **Gradient**.
5. To change the background to a solid color, click a color.
6. To change the background to a gradient color, click a top color and a bottom color.
7. Click **OK**.

Change the focus color of the Notification bar

You can change the color that indicates that the Notification bar is in focus for a theme with a BlackBerry® 6 layout.

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click the Notification bar.
3. On the **Quick Edit** bar, in the **Focus** drop-down list, click **Change Image**.
4. Click **Color** or **Gradient**.
5. To change the background to a solid color, click a color.
6. To change the background to a gradient color, click a top color and a bottom color.
7. Click **OK**.

Change the icons for unread items

In a theme with a BlackBerry® 6 layout, you can change the icons for unread items in the Notification bar.

1. In the **Inspector**, click the **Home Screen** button.
2. In the preview area of the canvas, click the **Unread** icon.
3. On the **Quick Edit** bar, in the **New Items** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.
6. Click **OK**.

Change the font settings for unread items

In a theme with a BlackBerry® 6 layout, you can change the font settings for unread items in the Notification bar.

1. In the **Inspector**, click the **Home Screen** button.

2. In the preview area of the canvas, in the Notification bar, click the number that represents the number of unread items.
3. On the **Quick Edit** bar, in **Unread Font**, click a font.
4. To change the size of the text, in the **Size** field, type a number.
5. To apply bold, click the **Bold** button.
6. To apply italic, click the **Italics** button.
7. To apply anti-aliasing, click the **Anti-alias** button.
8. To change the text alignment, click the **Alignment** button.

Change the appearance of a Today item for a BlackBerry 6 theme layout

You can change the appearance of Today items for a theme with a BlackBerry® 6 layout. When a BlackBerry device user taps the Notification bar on a device running BlackBerry® Device Software 6.0, the Today items are displayed below the Notification bar.

1. In the **Inspector**, click the **Today Home screen** button.
2. Do any of the following:

Task	Steps
Change the appearance of the highlight.	a. In the preview area of the canvas, click the highlight area. b. On the **Quick Edit** bar, in the **Caret** drop-down list, click **Change Image**. c. Click **Color**, **Gradient**, or **Image**. d. Select the color, gradient, or image you want to change the highlight to. e. Click **OK**.
Change the color of the background of the Today Home screen.	a. In the preview area of the canvas, click the background of the Today Home screen. b. On the **Quick Edit** bar, click the **Background Mask** color swatch. c. Specify a color. d. Click **OK**.
Change the font settings for the title.	a. In the preview area of the canvas, click a title of an application, for example **Message**. b. On the **Quick Edit** bar, in the **Font** drop-down list, click a font. c. To change the size of the text, in the **Size** field, type a number. d. To apply bold, click the **Bold** button. e. To apply italic, click the **Italics** button. f. To apply anti-alias, click the **Anti-alias** button.

Change the font settings for the subentry.	a. In the preview area of the canvas, click an entry under an application, for example an email message under the Message application. b. On the **Quick Edit** bar, in the **Font** drop-down list, click a font. c. To change the size of the text, in the **Size** field, type a number. d. To apply bold, click the **Bold** button. e. To apply italic, click the **Italics** button. f. To apply anti-aliasing, click the **Anti-alias** button.

Customizing a Home screen with a Custom or Custom 6 theme layout

A Home screen with a Custom or Custom 6 theme layout displays a combination of Zen theme items (application icons only) and Today theme items (application icons and the most recent entries). You can position these items anywhere on the screen.

In addition to the functionality that you can add and change for all themes, you can further customize your Home screen when you choose a custom theme.

When you create a custom theme, you can use an .svg file to create a more dynamic screen, you can layer the Home screen over the banner, and you can specify cursor navigation paths.

Specify the applications that appear on the Home screen with a Custom layout

1. In the **Inspector**, click the **Home Screen** button.
2. Do any of the following:
   - To show an application icon with recent entries, on the **Toolbar**, click **Add a Today Item**.
   - To show an application icon only, on the **Toolbar**, click **Add a Zen Item**.

Move the application icons on the Home screen with a Custom layout

You can move the icons of Home screen applications for Custom and Custom 6 theme layouts only.

Before you begin: Specifiy the applications that you want to display on the Home screen.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Toolbar**, click **Turn On/Off Bounding Boxes**.
   In the preview area of the canvas, bounding boxes appear around each application icon and associated text.
3. Select a bounding box and drag the appication icon to the location that you want. You can select and move multiple bounding boxes at once.
4. When you are finished moving the application icons, click **Turn On/Off Bounding Boxes**.

Layer the Home screen over the banner

You can create a layered effect by placing the Home screen over the banner. The .svg file and any applications that you choose are placed in front of the banner.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, select the **Home Screen Over Banner** check box.

Customize the cursor navigation path on a Home screen with a Custom layout

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, click the **Navigation** button.
3. In the **Navigation** dialog box, click the center icon to choose an application.
4. Click **OK**.
5. Click each of the surrounding icons to specify the cursor navigation order from that application to each of the other applications.
6. Repeat steps 2 to 5 for each application.
7. To view the navigation paths in the preview area of the canvas, click **Show Navigational Paths on the Preview**.

Retain navigation history

You can specify how much of the navigation history to retain. You can retain the complete history, a single step, or no history at all.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, click the **Navigation** button.
3. Perform one of the following actions:
   - To retain the complete history, in the **Navigational History** drop-down list, click **Full Memory**.
   - To retain one step, in the **Navigational History** drop-down list, click **One Step**.
   - To retain no history, in the **Navigational History** drop-down list, click **No Memory**.

Specify the default navigation links

You can specify which direction to automatically create navigation links for additional applications on a Home screen with a Custom or Custom 6 layout. You can create vertical or horizontal links automatically. If you choose not to create links automatically, you must create them manually for applications that you want to add to the navigation.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, click the **Navigation** button.
3. In the **Default Connections** section, perform one of the following actions:
   - To create vertical links automatically, select the **Auto Create Vertical Defaults** option.

- To create horizontal links automatically, select the **Auto Create Horizontal Defaults** option.
- To create links manually, select the **Do Not Create Default Links** option.

Designing banners

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Banners display the following:

- date, time, and wireless service provider
- application notifications, such as the alarm indicator, missed call count indicator, unopened message count indicator, and third-party indicators
- wireless connection indicators, such as the wireless coverage level, network coverage, Bluetooth® indicator, Wi-Fi®
- connection indicator, and roaming indicator
- battery power indicator
- sound profile indicator
- search icon

Banners appear on the Home screen and on the Application list screen. The Home screen banner appears on the Home screen and, depending on the theme layout, on the Lock screen. The Application list banner appears on the Message list, Phone lists, and, depending on the theme layout, on the Lock screen. Banners display elements such as the date and time, network connectivity, and notification icons.

You can customize banners; you can replace banner and indicator images with your own, apply custom fonts, and customize the color scheme. You can also adjust the banner height for the Home screen banner and you can reposition and resize elements within the banner. When you resize the banner or add and reposition elements, make sure that you keep all elements within the banner.

For custom theme layouts, you have the option of making the banner take up the full area of the Home screen so that you can reposition banner items anywhere on the Home screen. The banner is a transparent image and by making it take up the full area of the Home screen, you can create a layered effect over the background image of the Home screen.

Some images, such as those for the Alarm, Unread items, and New items, are shared between banners. You cannot change them independently; changes you make to any of these elements for either the Home screen or Application list screen will appear on both screens.

Change the background image for a banner

1. In the **Inspector**, click the **Banner** button.
2. Do one of the following:
   - To change the background of the Home screen banner, on the **Toolbar**, click **Show the Home Screen Banner**.
   - To change the background of the Application list banner, on the **Toolbar**, click **Show the Application Banner**.
3. In the preview area of the canvas, click the background image of the banner.
4. On the **Quick Edit** bar, in the **Banner Background** drop-down list, click **Change Image**.
5. Navigate to an image.
6. Click **Open**.

Change the size of a banner

You can set the banner height to a value between 10 pixels and 120 pixels. If you are creating a theme for a BlackBerry® device that is running BlackBerry® 6, you can only change the size of the Home screen banner.

1. In the **Inspector**, click the **Banner** button.
2. To change the size of the Home screen banner, do the following:
   a. On the **Toolbar**, click **Show the Home Screen Banner**.
   b. On the **Quick Edit** bar, in the **Home Screen Banner** section, in the **Banner Height** field, click the up and down arrows to specify the height of the banner in pixels.
3. To change the size of the banner that displays on the Application list screen, do the following:
   a. On the **Toolbar**, click **Show the Application Banner**.
   b. On the **Quick Edit** bar, in the **Application Banner** section, in the **Banner Height** field, click the up and down arrows to specify the height of the banner in pixels.

Add or remove banner items

1. In the **Inspector**, click the **Banner** button.
2. On the **Toolbar**, click **Show the Home Screen Banner**.
3. On the **Quick Edit** bar, in the **Home Screen Banner** section, click **Item Visibility**.
4. In the **Banner Item Visibility** dialog box, do the following:
   - Select the check boxes for the items that you want to display on the banner.
   - Clear the check boxes for the items that you don't want to display on the banner.

   In the preview area of the canvas, the banner items appear or disappear as you select or clear the check boxes.
5. Click **Close**.

Change the text settings for banner elements

1. In the **Inspector**, click the **Banner** button.
2. On the **Toolbar**, click either the **Application Banner** or **Home Screen Banner** icon.
3. In the preview area of the canvas, click the element that you want to change the text settings for.
   By default, the **AM/PM** element uses the same font family and font settings as the **Time** element. You can specify the size for the **AM/PM** element only if you specify a TrueType font for the **Time** element.
4. On the **Quick Edit** bar, select the font, font size, and font style.
5. To change the font color, on the **Quick Edit** bar, click the **Fill** box and click a color.
6. To change the font outline, on the **Quick Edit** bar, click the **Stroke** box and click a color.
7. To change the text alignment, on the **Quick Edit** bar, click the **Alignment** button.

Move the banner elements

1. In the **Inspector**, click the **Banner** button.
2. On the **Toolbar**, click **Turn On/Off Bounding Boxes**.
3. Click a bounding box and drag it to the location that you want.
4. To remove the bounding boxes, on the **Toolbar**, click the **Turn On/Off Bounding Boxes**.

Change the underlay image for the Profiles icon

1. In the **Inspector**, click the **Banner** button.
2. On the **Toolbar**, click **Show the Home Screen Banner**.
3. On the **Quick Edit** bar, in the **Home Screen Banner** section, click **Item Visibility**.
4. In the **Banner Item Visibility** dialog box, select the **Profiles Icon** check box and click **Close**.
   The Profiles icon appears in the preview area of the canvas.
5. In the preview area of the canvas, click the **Profiles** icon.
6. On the **Quick Edit** bar, in the **Focus Icon** drop-down list, click **Change Image**.
7. Navigate to an image.
8. Click **Open**.

Change the image for banner elements

You can change the image for each of the banner elements, such as the signal meters and notification icons. Some elements, such as the battery meter, use a composite image that displays several states for the element. Some images, such as those for the Alarm, Unread items, and New items, are shared between banners. You cannot change them independently; changes you make to any of these elements for either the Home screen or Application list screen appear on both screens.

1. In the **Inspector**, click the **Banner** button.
2. On the **Toolbar**, click either **Show the Application Banner** or **Show the Home Screen Banner**.
3. In the preview area of the canvas, click the banner element that you want to change the image for.
4. On the **Quick Edit** bar, click the drop-down list next to the name of the banner element.
5. Click **Change Image.**
6. Navigate to an image file.
7. Click **Open**.

Customizing external flip screens

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You can customize external flip screens of BlackBerry® Pearl™ Flip Series devices using the same elements you use for other BlackBerry devices. However, you can access additional BlackBerry Pearl Flip Series device elements from the Inspector to customize additional UI elements on the external screen.

Customize the external Home screen

1. In the **Inspector**, click the **External Screen** button.
2. To change the background, lock icon, or indicators, in the preview area of the canvas, click the image that you want to change.
3. On the **Quick Edit** bar, in the drop-down list next to the name of the imagec, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.
6. Click **OK**.
7. To change text settings for network and unread items, on the **Quick Edit** bar, change the settings.

Customize the external phone screen

1. In the **Inspector**, click the **External Screen** button.
2. Expand the **Inspector**.
3. Click the **Phone** tab.
4. To change the background or phone icon and volume images, in the preview area of the canvas, click the image that you want to change.
5. On the **Quick Edit** bar, in the drop-down list next to the name of the image, click **Change Image**.
6. Navigate to an image.
7. Click **Open**.
8. Click **OK**.
9. To change the font color for phone screen text, click the color swatch next to **Font Color**.
10. In the **Color Picker** dialog box, specify the color that you want to use.

Customize indicators on the external screen

1. In the **Inspector**, click the **External Screen** button.
2. Expand the **Inspector**.
3. Click the **Notification** tab.
4. To change the font color for notification text, do the following:
   a. Click the text on the preview area of the canvas.

b. On the **Quick Edit bar**, click the color swatch and specify the color that you want to use.

5. To change the indicator images for notifiers, do the following:
   a. In the **Inspector**, click the **Show Notifiers** radio button and click the image for each type of notifier
   b. Navigate to an image.
6. To change the indicator images for alerts, do the following:
   a. In the **Inspector**, click the **Show Alerts** radio button and click the image for each type of alert.
   b. Navigate to an image.

Customizing BlackBerry devices with touch screens

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You can customize BlackBerry® devices with a touch screen using the same elements that you use for other devices. However, you can customize additional UI elements for portrait and landscape modes.

Change BlackBerry device elements in portrait or landscape mode

You can change the banners, Application list screen, Lock screen, and Shortcut bar screen separately for landscape mode and portrait mode on BlackBerry® devices with a touch screen.

1. On the **Toolbar**, click **Change BlackBerry Orientation** ( ).
2. To make changes in both landscape and portrait mode, click the **Link Portrait and Landscape Changes** button ( ) if it is not already turned on.

   Changes you make in one mode are reflected in both modes.
3. To specify images, fonts, or colors in landscape mode that are different from the items that display in portrait mode, click the **Link Portrait and Landscape Changes** button ( ) so that it is turned off.

Design a Home screen that is different in landscape mode

You can design a Home screen that is different in landscape mode than in portrait mode for a BlackBerry® device with a touch screen.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, select the **Enable Landscape Homescreen** check box.
3. Change the orientation of the BlackBerry device.

Keep focus on an object

By default, when a BlackBerry® device subscriber taps an object on a BlackBerry device with a touch screen, the focus fades away from the object. You can change the default to keep the focus on an object after it is tapped.

1. In the **Inspector**, click the **Home Screen** button.
2. On the **Quick Edit** bar, in the **Home Screen** section, select the **Focused Object Remains in Focus** check box.

Change background images for the Shortcut bar

The Shortcut bar appears only on BlackBerry® devices with a touch screen.

1. In the **Inspector**, click the **Shortcut Bar** button.
2. In the preview area of the canvas, click the element in the Shortcut bar that you want to change the background image for.
3. On the **Quick Edit** bar, click the drop-down list next to the name of the image.
4. Click **Change Image**.
5. Navigate to an image.
6. Click **Open**.

Change navigation images for the Shortcut bar

The Shortcut bar appears only on BlackBerry® devices with a touch screen.

1. In the **Inspector**, click the **Shortcut Bar** button.
2. In the preview area of the canvas, click a navigation image on the Shortcut bar (for example, the Up or Down arrow).
3. On the **Quick Edit** bar, click the drop-down list next to the name of the image.
4. Click **Change Image**.
5. Navigate to an image.
6. Click **Open**.

Customizing the Application List screen 11

The Application List screen is a part of all theme layouts. It is the Home screen for the Icon layout type, and is the Application List screen for the Zen, Today, and Custom layout types.

Change the background image for the Application list screen

You can change the background image for the Application list screen, except for a theme with a BlackBerry® 6 layout.

1. In the **Inspector**, click the **Application List Screen** button.
2. In the preview area of the canvas, click the background image.
3. On the **Quick Edit** bar, click the **Background** drop-down list.
4. Click **Change Image**.
5. Navigate to an image.
6. Click **Open**.

Change the appearance of the tray

The tray appears on the Home screen of BlackBerry® devices that are running BlackBerry® 6. When a device user taps All on the tray of a device, the application list is displayed. You can change the appearance of the tray only for BlackBerry 6 theme layouts.

1. In the **Inspector**, click the **Application List Screen** button.
2. Do any of the following tasks:

Task	Description
Change the appearance of the tray highlight.	a. In the preview area of the canvas, click the tray. b. On the **Quick Edit** bar, in the **Tray Highlight** drop-down list, click **Change Color/Image**. c. Click **Color**, **Gradient**, or **Image**. d. Click a color, gradient, or image. e. Click **OK**.
Change the font settings for the tray.	a. In the preview area of the canvas, click any font on the tray. b. On the **Quick Edit** bar, in the **Font** drop-down list, click a font. c. To change the size of the text, in the **Size** field, type a number.

	d. To apply bold, click the **Bold** button. e. To apply italic, click the **Italics** button. f. To apply anti-aliasing, click the **Anti-alias** button. g. To change the alignment of text, click the **Alignment** button.
Change the background color of the tray.	a. In the preview area of the canvas, click the tray. b. On the **Quick Edit** bar, in the **Tray Background** drop-down list, click **Change Color**. c. Click a color. d. Click **OK**.

Change the font for the calendar

1. On the **Inspector**, click the **Application List Screen** button.
2. In the preview area of the canvas, click the text on the calendar.
3. On the **Quick Edit** bar, select the font, font size, and font style.

Change the icon for a BlackBerry device application

1. In the **Inspector**, click the **Application List Screen** button.
2. On the **Quick Edit** bar, in the **Application List** section, click **Application Icons**.
3. In the **Application Icons** dialog box, in the **Normal** column, click an application icon.
4. Navigate to the image that should appear when the application is not selected.
5. Click **Open**.
6. In the **Application Icons** dialog box, in the **Focus** column, click the icon for the same application that you chose in step 3.
7. Navigate to the image that should appear when the BlackBerry device user selects the application icon.
8. Click **Open**.

Change multiple application icons at one time

You can drag a folder that contains the images to the Applications icons dialog box to change multiple application icons at one time.

Before you begin:

Ccreate icons with the same file names as the files that you want to replace. You must store the new files in one folder.

1. In the **Inspector**, click the **Application List Screen** button.
2. On the **Quick Edit** bar, in the **Application List** section, click **Application Icons**.
3. Drag the folder that contains the icons to the **Application Icons** dialog box.
4. Click **Close**.

Add a link to the Application list screen

On the Application list screen, you can add up to ten icons that link to specified web pages. Although you can add up to ten links, the preview area of the canvas displays only the most recent link that you added.

Only BlackBerry® devices that are running BlackBerry® Device Software 4.5 or later support linking to webpages. If a BlackBerry device user installs a theme that contains links on a device running an earlier version of the BlackBerry Device Software, the device does not display the link on the Application list screen.

You can customize the icons for the links. Each link has the following two icons associated with it:

- Normal state: This state is displayed when the icon is not selected.
- Focus state: This state is displayed when the icon is selected. This image shows the web link icon in a highlighted, or in-focus, state, and is always displayed in conjunction with the highlighted underlay image or overlay image.

You can use the same source image for both icons; however, you must still specify an image for each. When you export the theme, the BlackBerry Theme Builder creates an image file with a unique name for each icon, even if you use the same source image for both.

1. In the **Inspector**, click the **Application List Screen** button.
2. On the **Quick Edit** bar, in the **Application List** section, click **Web Links**.
3. In the **Manage Web Links** dialog box, click **Add Web Link**.
4. In the **Name** field, type a name for the link. This name appears on the Application list screen with *Web Link:* in front of the name.
5. In the **Address** field, type the web address to display in the browser when a user clicks the icon.
6. Click **OK**.
7. In the **Normal** column, click the icon.
8. Navigate to the image that should appear when the icon is not selected.
9. Click **Open**.
10. In the **Focus** column, click the icon.
11. Navigate to the image that should appear when the user selects the icon.
12. Click **Open**.

Customizing UI controls and application lists 12

Show or hide UI controls

You can show only the controls that you want to change the appearance for and you can hide the other controls.

1. In the **Inspector**, click the **Controls** button.
2. On the **Toolbar**, perform any of the following actions:

Task	Steps
Show or hide dialog boxes and dialog box buttons.	Click **Show the Dialog and Buttons**.
Show or hide the menu.	Click **Show the Menu**.
Show or hide the title bar.	Click **Show the Menu**.
Show or hide the search field.	Click **Show the Search Field**.
Show or hide the group box.	Click **Show the Group Box**.
Show or hide the pop-up menu.	Click **Show the Popup Menu**.

Change the images for UI controls

1. In the **Inspector**, click the **Controls** button.
2. Perform any of the following actions:

Task	Steps
Change the background for a dialog box.	a. On the **Toolbar**, click the **Show the Dialog and Buttons** button. b. In the preview area of the canvas, click the background image in the dialog box. c. On the **Quick Edit** bar, in the **Dialog Background** drop-down list, click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change images for a dialog box icon.	a. On the **Toolbar**, click the **Show the Dialog and Buttons** button. b. In the preview area of the canvas, click the icon in the dialog box. c. On the **Quick Edit** bar, in the drop-down list next to the name of the icon, click **Change Image**. d. Navigate to an image. e. Click **Open**.

Change the image for a button.	You can change the image for buttons in normal, disabled, highlight, disabled highlight, and active states. a. On the **Toolbar**, click the **Show the Dialog and Buttons** button. b. In the preview area of the canvas, click a button in the dialog box. c. On the **Quick Edit** bar, in the drop-down list next to the name of the button, click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the background for a menu.	a. On the **Toolbar**, click the **Show the Menu** button. b. In the preview area of the canvas, click the menu background image. c. On the **Quick Edit** bar, in the **Menu Background** drop-down list, click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the background for the title bar.	a. On the **Toolbar**, click the **Show the Titlebar** button. b. In the preview area of the canvas, click the background image in the title bar. c. On the **Quick Edit** bar, in the **Background** drop-down list, click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the background for the search field.	a. On the **Toolbar**, click the **Show the Search Field** button. b. In the preview area of the canvas, click the background image in the search field. c. On the **Quick Edit** bar, in the **Background** drop-down list, click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the image for the group box title.	a. On the **toolbar**, click the **Show the Group Box** button. b. In the preview area of the canvas, click the group box title. c. On the **Quick Edit** bar, in the **Title** drop-down list, click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the image for the group box title highlight.	a. On the **Toolbar**, click the **Show the Group Box** button. b. In the preview area of the canvas, click the title highlight of the group box. c. On the **Quick Edit** bar, in the **Title Highlight** drop-down list, click **Change Image**. d. Navigate to an image. e. Click **Open**.

Change the image for the group box body.	a. On the **Toolbar**, click the **Show the Group Box** button. b. In the preview area of the canvas, click the body of the group box. c. On the **Quick Edit** bar, click the **Body** drop-down list and click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the background image for the pop-up menu.	a. On the **Toolbar**, click the **Show the Pop-up menu** button. b. In the preview area of the canvas, click the pop-up menu. c. On the **Quick Edit** bar, click the **Popup Background** drop-down list and click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the focus image for the pop-up menu.	a. On the **Toolbar**, click the **Show the Popup menu** button. b. In the preview area of the canvas, click the focus area in the pop-up menu. c. On the **Quick Edit**, click the **Tab Focus** drop-down list and click **Change Image**. d. Navigate to an image. e. Click **Open**.

Change the text settings for UI controls

1. In the **Inspector**, click the **Controls** button.
2. Do any of the following tasks:

Task	Steps
Change text settings for dialog boxes.	a. On the **Toolbar**, click **Show the Dialog and Buttons** button. b. In the preview area of the canvas, click the text in the dialog box that you want to change. c. On the **Quick Edit** bar, select the font, font size, and font style.
Change text settings for dialog box buttons.	a. On the **Toolbar**, click **Show the Dialog and Button**. b. In the preview area of the canvas, click the text in a button in the dialog box. c. On the **Quick Edit** bar, select the font, font size, and font style.
Change text settings for menus.	a. On the **Toolbar**, click **Show the Menu**. b. In the preview area of the canvas, click the text in the menu that you want to change. c. On the **Quick Edit** bar, select the font, font size, and font style.

Change text settings for the title bar.	a. On the **Toolbar**, click **Show the Titlebar**. b. In the preview area of the canvas, click the text in the title bar. c. On the **Quick Edit** bar, select the font, font size, and font style.
Change text settings for the search field.	a. On the **Toolbar**, click **Show the Search Field**. b. In the preview area of the canvas, click the text in the search field. c. On the **Quick Edit** bar, select the font, font size, and font style.
Change text settings for lists.	a. In the preview area of the canvas, click the text in the list that you want to change. b. On the **Quick Edit** bar, select the font, font size, and font style.
Change the text settings for the group box.	a. On the **Toolbar**, click **Show the group box**. b. In the preview area of the canvas, click the text in the group box that you want to change. c. On the **Quick Edit** bar, select the font, font size, and the font style.
Change the text settings for the pop-up menu.	a. On the **Toolbar**, click **Show the Pop up menu**. b. In the preview area of the canvas, click the pop-up menu. c. On the **Quick Edit** bar, select the font, font size, and the font style.

Change colors for UI controls

1. In the **Inspector**, click the **Controls** button.
2. Do any of the following tasks:

Task	Steps
Change the background color for dialog boxes, menu items, the title bar, and the search field.	a. On the **Toolbar**, click the appropriate icon to display the dialog box, menu, title bar, or search field. b. In the preview area of the canvas, click the background image in the dialog box. c. On the **Quick Edit** bar, click a color swatch. d. Navigate to an image. e. Click **Open**.
Change the cursor for menus, the title bar, the search field, and lists.	You can change the cursor as a solid color, a color gradient, or as an image. a. On the **Toolbar**, click the appropriate icon to display the menu, title bar, search field, or list.

	b. In the preview area of the canvas, click the cursor. c. On the **Quick Edit** bar, click a color swatch. d. In the **Color Picker** dialog box, select a color. e. Click **OK**.
Change the colors for list elements.	You can change the color for list stripes, the highlight font, the highlight for multiple selected items, and the cursor. a. In the preview area of the canvas, click an element in the list. b. In the **Quick Edit** bar, click a color swatch. c. In the **Color Picker** dialog box, select a color. d. Click **OK**.

Customizing the message list

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Change the text settings for the date

1. In the **Inspector**, click the **Message List** button.
2. In the preview area of the canvas, click the date.
3. On the **Quick Edit** bar, select the font, font size, font style, color, or outline.

Change the background image for the date bar

1. In the **Inspector**, click the **Message List** button.
2. In the preview area of the canvas, click the background image for the date bar.
3. On the **Quick Edit** bar, in the **Date Background** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.

Change images for the message list

The message list displays icons that identify the type and status of the messages. These icons include images for email messages and text messages, and browser messages, such as saved browser requests or pushed browser content.

The images for each type of message are stored in a composite image that displays several states for each message type.

1. In the **Inspector**, click the **Message List** button.
2. In the preview area of the canvas, click an icon for one of the messages.
3. On the **Quick Edit** bar, in the **Icons** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.
6. To see the states of the composite image, do the following:
   a. On the **Quick Edit** bar, in the **Icons** drop-down list, click **Preview Image**.
   b. In the **Preview Meter** dialog box, click through each of the states to see the images.
   c. Click **OK**.

   The last image you click remains in the preview area of the canvas.

Change the color for messages sent with high importance

You can specify the color of messages that are sent with high importance to the BlackBerry® device.

1. In the **Inspector**, click the **Message List** button.
2. In the preview area of the canvas, click a message sent with high importance.
3. On the **Quick Edit** bar, click the **Priority 1** color swatch.
4. Specify a color.
5. Click **OK**.

Customizing the Phone screens

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You can customize the Phone hotlist, the Active Call screen, and the Incoming Call screen. Depending on the phone screen and the BlackBerry® device model, you can change the text color, font, background, and composite images that are used on the phone. You can also add a ring tone to the Incoming Call screen.

Change the background image for the Phone screens

You can change the background image for the Active Call screen and the Incoming Call screen.

1. In the **Inspector**, click either the **Active Call Phone Screen** button or the **Incoming Call Phone Screen** button.
2. In the preview area of the canvas, click the background image.
3. On the **Quick Edit** bar, in the **Background** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.

Change the text color for the phone screens

1. Do any of the following:
   - To change the text color for elements on the Active Call screen, in the **Inspector**, click the **Active Call Phone Screen** button.
   - To change the text color for elements on the Incoming Call screen, in the **Inspector**, click the **Incoming Call Phone Screen** button.
   - To change the text color for elements on the Phone Hotlist, in the **Inspector**, click the **Phone Hotlist** button.
2. In the preview area of the canvas, click text that you want to change the color for.
3. On the **Quick Edit** bar, click the color swatch and specify a color.
4. Click **OK**.

Change images for the phone screens

You can change the images for the Phone Hotlist, Incoming Call, and Active Call screens. Some of the phone screens use composite images. The composite image must include the same number of images as the one you are replacing. For example, the volume slider image must be a composite image consisting of one row of 11 images, one image for each possible volume state.

1. Do any of the following:
   - To change the images for the Phone Hotlist screen, in the **Inspector**, click the **Phone Hotlist** button.
   - To change the images for the Incoming Call screen, in the **Inspector**, click the **Incoming Call Phone Screen** button.
   - To change the images for the Active Call screen, in the **Inspector**, click the **Active Call Phone Screen** button.
2. In the preview area of the canvas, click an image.

3. On the **Quick Edit** bar, in the drop-down list next to the name of the image that you want to change, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.

Add a ring tone

You can add a ring tone to themes for devices that run BlackBerry® Device Software 5.0 or later. The sound file must not exceed 4 MB.

1. In the **Inspector**, click the **Incoming Call** button.
2. On the **Quick Edit** bar, in the **Incoming Call Screen** section, click the folder beside **Ring Tone**.
3. Navigate to a sound file.
4. To listen to the sound file, in the **Open** dialog box, click the **Play** button.
5. Click **Open**.
6. To listen to the sound file again, click the **Play** button.
7. To stop playing the sound file, click the **Stop** button.

Phone hotlist settings for touch screen devices

In addition to the Phone hotlist settings available for all BlackBerry® devices, you can change the settings for the following elements on BlackBerry devices with a touch screen.

Element	Description
Button Focus	Change the focus image for buttons.
Button Active	Change the active button image.

Active Call screen settings for BlackBerry devices with a touch screen

In addition to the Active Call settings available for all devices, you can change the following elements for BlackBerry® devices with a touch screen.

Area	Element	Description
Active Phone Call	Button Focus	Change the focus image for buttons.
	Position	Reposition Active Call screen objects.
Fonts	My Number	Change text properties for the device phone number.
	Call Timer	Change text properties for the call timer.
	Status	Change text properties for status text.

Area	Element	Description
	Conference	Change text properties for conference call text.
	Buttons	Change text properties for button text.
Icons	Speaker	Change the icon image for the **Speaker** button.
	Flash/Hold	Change the icon image for the **Flash/Hold** button.
	Resume	Change the icon image for the **Resume** button.
	Bluetooth	Change the icon image for the **Bluetooth** button.
	Mute	Change the icon image for the **Mute** button.
	Add Participant	Change the icon image for the **Add Participant** button.
	Join	Change the icon image for the **Join** button.
	Unmute	Change the icon image for the **Unmute** button.

Incoming Call screen settings for BlackBerry devices with a touch screen

In addition to the Incoming Call settings available for all devices, you can theme the following elements for BlackBerry® devices with a touch screen.

Area	Element	Description
Incoming Phone Call	Button Focus	Change the focus image for buttons.
	Position	Reposition Active Call screen objects.
Fonts	Call Text	Change text properties for call text.
	Caller Name	Change text properties for the name of the caller.
	Caller Number	Change text properties for the incoming phone number.
	Caller Info	Change text properties for caller information.
	Buttons	Change text properties for button text.

Customizing the Lock screen

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Change the background image for the Lock screen

If the image does not have the same dimensions as the BlackBerry® device screen, the BlackBerry Theme Builder scales the image to fit.

1. In the **Inspector**, click the **Lock Screen** button.
2. In the preview area of the canvas, click the background image.
3. On the **Quick Edit** bar, in the **Background** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.

Change the text settings for the Lock screen

1. In the **Inspector**, click the **Lock Screen** button.
2. In the preview area of the canvas, click the text that you want to change the settings for.
3. On the **Quick Edit** bar, change the font, font size, and font style.

Change the lock image

By default, the lock image appears in the lower right corner of the screen when the BlackBerry® device is locked.

1. In the **Inspector**, click the **Lock Screen** button.
2. In the preview area of the canvas, click the lock image.

   The lock image might be behind other elements on the preview area of the canvas. You might need to move those elements to click the lock image
3. On the **Quick Edit** bar, in the **Lock Icon** drop-down list, click **Change Image**.
4. Navigate to an image.
5. Click **Open**.

Move or resize the Lock screen elements

1. In the **Inspector**, click the **Lock Screen** button.
2. On the **Toolbar**, click the **Turn On/Off Bounding Boxes** button to show bounding boxes in the preview area of the canvas.
3. Click a bounding box and drag it to the location that you want.
4. To resize an element, drag a node on the edge or corner of the bounding box.

Layer the Lock screen over the banner

The owner information appears on the BlackBerry® device when the BlackBerry device is locked. You can create a layered effect on the Lock screen so that an .svg file and the owner information appear in front of the banner. If the owner information and the banner items overlap, both are visible, but the owner information appears to be on top of the banner item.

1. In the **Inspector**, click the **Lock Screen** button.
2. On the **Quick Edit** bar, in the **Lock Screen** section, click the folder beside the **SVG File** field.
3. Navigate to an .svg file.
4. Click **Open**.
5. On the **Quick Edit** bar, in the **Lock Screen** section, select the **Lock Screen Over Banner** check box.

Add an animation to the Lock screen

1. In the **Inspector**, click the **Lock Screen** button.
2. On the **Quick Edit** bar, in the **Lock Screen** section, click the folder beside the **SVG File** field.
3. Navigate to an .svg file.
4. Click **Open**.

Customizing global UI elements

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You can use the Global Items Inspector to change the UI elements used across all BlackBerry® applications.

Change images for global UI elements

1. In the **Inspector**, click the **Global Items** button.
2. Perform any of the following actions:

Task	Steps
Change the send and receive data images.	a. In the preview area of the canvas, click the transmission icon. b. On the **Quick Edit** bar, click the drop-down list for either the transmit and receive icon, transmit icon, receive icon, or the transmit random access channel icon. c. Click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the key modifier images.	a. In the preview area of the canvas, click the key modifiers icon. b. On the **Quick Edit** bar, click the drop-down list for the multi-tap, Alt, Caps Lock, or Num Lock icon. c. Click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the navigation icons.	a. On the right portion of the preview area of the canvas, click the Up or Down arrow. b. On the **Quick Edit** bar, click the drop-down list for either the Up or Down arrow. c. Click **Change Image**. d. Navigate to an image. e. Click **Open**.
Change the hourglass image.	The hourglass image has a 16 frame limit. If the animated image has more than 16 frames, the BlackBerry® Theme Builder exports the first 16 frames only. a. In the preview area of the canvas, click the hourglass icon. b. On the **Quick Edit** bar, click the **Hourglass** drop-down list.

	c. Click **Change Image**. d. Navigate to an image. e. Click **Open**.

Change colors for global UI elements

1. In the **Inspector**, click the **Global Items** button.
2.

Task	Steps
Change the color of the progress indicator.	a. In the preview area of the canvas, click either the complete or incomplete part of the progress bar. b. On the **Quick Edit** bar, click either the **Complete Bar Color** swatch or the **Incomplete Bar Color** swatch. c. In the **Color Picker** dialog box, click a color. d. Click **OK**.
Change the color of the progress indicator text.	a. In the preview area of the canvas, click either the complete or incomplete part of the progress bar. b. On the **Quick Edit** bar, click either the **Complete Text Color** swatch or the **Incomplete Text Color** swatch. c. In the **Color Picker** dialog box, click a color. d. Click **OK**.
Change the background color of applications.	a. In the **Application** section, click the **Background** color swatch. b. In the **Color Picker** dialog box, click a color. c. Click **OK**.
Change the color of application text.	a. In the **Application** section, click the **Text** color swatch. b. In the color selector, click a color. c. Click **OK**.

Apply screen transitions

You can choose a screen transition to apply a visual effect that appears when the user opens or closes a screen on a BlackBerry® device. You can choose screen transitions for effects such as slides, wipes, and zooms, for transitions between screens, and lists. For example, you can specify that each time you move away from the Home screen, the Home screen slides up.

You can add screen transitions to themes for use on BlackBerry devices running BlackBerry® Device Software 4.7 or later.

1. In the **Inspector**, click the **Global items** button.
2. On the **Quick Edit** bar, in the **Globals** section, click **Screen Transitions**.

3. In the drop-down list for the screen or list, click a transition effect.
   You can click the button beside each drop-down list to preview the screen transition effects that are available.
4. Click **Close**.

Testing your theme

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You can test your themes by using the BlackBerry® Smartphone Simulator or a BlackBerry device.

Using the BlackBerry Smartphone Simulator to test your theme

You can use the BlackBerry® Smartphone Simulator to simulate the functionality of a BlackBerry device in a range of conditions.

You can download and install a BlackBerry Smartphone Simulator for each BlackBerry device model that is available for a specified version of the BlackBerry® Device Software.

The BlackBerry Theme Builder supports only a BlackBerry Smartphone Simulator that is running BlackBerry Device Software 4.5 or later.

Download and install the BlackBerry Smartphone Simulator

You can install only one BlackBerry® Smartphone Simulator at a time.

1. Visit http://www.blackberry.com/developers/downloads.
2. Click **BlackBerry Smartphone Simulators**.
3. Follow the instructions on the screen to download and install a BlackBerry Smartphone Simulator.

After you finish:

After you install a BlackBerry Smartphone Simulator, you can specify the BlackBerry device model and BlackBerry® Device Software version to simulate when you test your theme.

Configure the BlackBerry Smartphone Simulator

Before you use the BlackBerry® Smartphone Simulator to test your theme, you must configure the resolution, BlackBerry device model, and BlackBerry® Device Software version to simulate.

Before you begin:

Download and install a BlackBerry Smartphone Simulator.

1. On the **Edit** menu, click **Preferences**.
2. On the **Simulators** tab for each screen resolution, specify the following values:
   - resolution to simulate.
   - BlackBerry device model to simulate. The BlackBerry Theme Builder populates this list based on the resolution you select and the BlackBerry Smartphone Simulator that is installed on your computer.
   - BlackBerry Device Software version on the selected BlackBerry Smartphone Simulator.
3. Click **OK**.

View a theme in the BlackBerry Smartphone Simulator

After you configure the BlackBerry® Smartphone Simulator, you can view a theme in the BlackBerry Smartphone Simulator to test how it appears.

1. On the toolbar, click **Preview Theme on Simulator**.
2. Navigate through the UI to verify that images, colors, and fonts appear as expected.

Test your theme on a device

When you test your theme on a BlackBerry® device, you must make sure that you have the correct device model connected to your computer for the theme that you created.

1. Connect the device to your computer using a USB cable.
2. On the toolbar, click **Preview Theme on BlackBerry**.
3. Type the device password.
4. Click **OK**
5. If warning messages appear, click **Show Details** to view them.
6. Click **OK** to close the **Export successful** dialog box.
   When the export is complete, a message appears indicating that the theme is ready on the device.
7. Click **OK**.
8. If the device is running a BlackBerry® Device Software that is earlier than 5.0, perform the following actions:
   a. On the device, either on the Home screen or in a folder, click the **Options** icon.
   b. Click **Theme**.
   c. Click the theme that you exported to the device.

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Delete a theme from the BlackBerry device

1. Connect your BlackBerry® device to a computer.
2. On the **File** menu, click **Manage themes on Blackberry**.
3. Click a theme.
4. Click **Delete**.

After you delete the themes, the BlackBerry device restarts automatically.

Making themes available to BlackBerry device users 19

Considerations for exporting themes

When you export a theme, the BlackBerry® Theme Builder places the theme automatically in a .cod file that BlackBerry devices that are running BlackBerry® Device Software 4.2 or later can read. Depending on the export type that you choose, the BlackBerry Theme Builder also creates either an .alx file or a .jad file that you must distribute along with the .cod file.

If you are exporting a theme for distribution over the wireless network or for distribution using the BlackBerry® Desktop Manager, and you want to make a theme available for devices that have different models and different versions of the BlackBerry Device Software, you must export the theme to a separate folder for each difference. Each time that you export a theme, you must specify only one BlackBerry device model, the version of the BlackBerry Device Software, and the export type. If you must specify more than one BlackBerry device model, the version of the BlackBerry Device Software, or the export type, you must repeat the export process. If you export a theme to one folder using the same name, the BlackBerry Theme Builder removes the files from the first export (.cod, .alx, and .jad) and then regenerates the files.

Before you export a theme, the following considerations determine which export settings you should use:

Consideration	Description
BlackBerry device that you want to export a theme to	BlackBerry devices—even those that have the same screen size—have slight differences in functionality and UI design. You must specify the BlackBerry device that you want to export a theme to.
BlackBerry Device Software version that is on the BlackBerry device that you want to export the theme to	The BlackBerry Theme Builder can export themes to devices that are running BlackBerry Device Software version 4.2 or later. You must specify the version that you want the BlackBerry Theme Builder to export a theme to. If you customize an element of the theme that a specific version of the BlackBerry Device Software does not support, the BlackBerry Theme Builder removes that element from the theme before the theme is exported. You must instruct users with BlackBerry devices that are running BlackBerry Device Software 4.2 and 4.2.1 who install a theme to restart their devices manually before they activate the new theme.
Export types	You can make themes available to BlackBerry device users in three diferent ways. • You can export the theme so that BlackBerry device users can copy the theme to their computer and then use the application loader tool of the BlackBerry® Desktop Manager to add the theme to a BlackBerry device that they connect to their computer.

Consideration	Description
	• You can export the theme so that BlackBerry device users can download it over the wireless network directly to a BlackBerry device. • You can export the theme so that BlackBerry device users can export the theme from the BlackBerry Theme Builder to a BlackBerry device that they connect to their computer. • You can export the theme so that the BlackBerry Theme Builder packages the .cod file into a .zip file. In this type of export, you can add more than one theme into a .zip file. You must export the theme for each device and add each theme to the same .zip file.
Include international characters	When you export a theme, you can include international characters in the export files. If you want to include international characters, the BlackBerry Theme Builder exports all of the international characters, such as accented characters and symbols, that are available for each font in the theme. The BlackBerry Theme Builder includes only the international characters that exist in the original font set. It does not export international character sets, such as Chinese, Arabic, or Cyrillic. If a font set that you specified in the theme does not contain a specific character, the BlackBerry device uses a system font to display the character.

Add a theme to a .zip file to upload to BlackBerry App World

The BlackBerry® Theme Builder packages themes for different devices into a .zip file so that you can upload the themes to the BlackBerry App World™ storefront. The .zip file contains the .cod file, the name of the bundle, the minimum BlackBerry® Device Software for the bundle, and the list of supported devices for the bundle.

1. On the **File** menu, click **Export**.
2. In the **Export Type** section, select the **Publish for App World (ZIP)** option.
3. In the **Theme Name** field, type a name for the theme.
4. In the **Zip File** field, specify the location where you want to store the .zip file and do one of the following:
   - To create a new .zip file, in **File name**, type the name of the .zip file.
   - If you have an existing .zip file that you want to add more themes to, click the .zip file.
5. In the **Handheld** drop-down list, click the device that you created the theme for.
6. In the **Target OS** drop-down list, click the version of the BlackBerry Device Software that you created the theme for.
7. If you want to support the theme in languages other than English, select the **Include international characters** check box. If you select this option, the BlackBerry Theme Builder exports all of the international characters, such as accented characters and symbols, that are available for each font in the theme.

   The BlackBerry Theme Builder includes only the international characters that exist in the original font set. It does not export international character sets, such as Chinese, Arabic, or Cyrillic. If a font set specified in the theme does not contain a specific character, the BlackBerry device uses a system font to display the character.
8. Click **OK**.

After you finish:

In BlackBerry App World, you must create an application in the vendor portal and set the category to Themes. For more information about adding applications to BlackBerry App World, see the administration guide for the *BlackBerry App World storefront Vendor portal*.

Before you submit an application for review, you can change any information about the application. You can choose to save a draft of the application instead of submitting the application right away. You can continue to add new theme bundles to the release while it is in draft mode.

Install a theme directly on the BlackBerry device

1. On the **File** menu, click **Export**.
2. Select **Install to BlackBerry**.
3. In the **Theme Name** field, type a name for the theme.
4. In the **Password** field, type the password for the BlackBerry device.
5. To overwrite any existing files automatically, select the **Overwrite existing files** check box.
6. If you want to support the theme in languages other than English, select the **Include international characters** check box. If you select this option, the BlackBerry Theme Builder exports all of the international characters, such as accented characters and symbols, that are available for each font in the theme.

   The BlackBerry Theme Builder includes only the international characters that exist in the original font set. It does not export international character sets, such as Chinese, Arabic, or Cyrillic. If a font set that you specified in the theme does not contain a specific character, the BlackBerry device uses a system font to display the character.
7. Click **OK**.

After you finish:

BlackBerry device users who use devices that are running BlackBerry® Device Software 4.2.0 and 4.2.1 must restart their devices manually before they activate the new theme.

Export a theme for distribution over the wireless network

You can export the theme so that BlackBerry® device users can download the theme over the wireless network, directly to a BlackBerry device. Users can browse to your webpage and select the .jad file to download the theme.

1. On the **File** menu, click **Export**.
2. In the **Export Type** area, select the **Publish for Web (OTA)** option.
3. In the **Theme Name** field, type a name for the theme.

   After you export the theme, the BlackBerry Theme Builder adds the prefix com_plazmic_theme_ to the name of the .cod and .jad files. For example, if you name your theme myTheme, the BlackBerry Theme Builder produces a file named com_plazmic_theme_myTheme.cod.
4. In the **Path** field, specify the location where you want to store the .cod file and the associated .jad file.
5. In the **Handheld** drop-down list, click the device that you created the theme for.

6. In the **Target OS** drop-down list, click the version of the BlackBerry® Device Software that you created the theme for.
7. To overwrite any existing files automatically, select the **Overwrite existing files** check box.
8. If you want to support the theme in languages other than English, select the **Include international characters** check box.

The BlackBerry Theme Builder creates a .jad file and a .cod file. If the theme is too large for a single .cod file, the BlackBerry Theme Builder might produce multiple .cod files and number them (for example, com_plazmic_theme_myTheme.cod or com_plazmic_theme_myTheme-1.cod).

After you finish:

Post the .jad and .cod files on a web server that is accessible to all users who require the theme. You must store all .jad files and .cod files in the same directory so that users can download all the necessary components to their devices.

Make sure the web server has the following content types defined:

- .jad text/vnd.sun.j2me.app-descriptor
- .cod application/vnd.rim.cod

Export a theme for distribution using the application loader tool of the BlackBerry Desktop Manager

Users can copy the .cod file and the .alx file to their computers and use the application loader tool in the BlackBerry Desktop Manager to select the .alx file and add the theme to a BlackBerry device that they connect to their computer.

1. On the **File** menu, click **Export**.
2. In the **Export Type** area, select the **Publish for Desktop Manager** option.
3. In the **Theme Name** field, type a name for the theme.

   After you export the theme, the BlackBerry Theme Builder adds the prefix com_plazmic_theme_ to the name for the .cod file. For example, if you name your theme myTheme, the BlackBerry Theme Builder produces a file named com_plazmic_theme_myTheme.cod.
4. In the **Path** field,specify the location where you want to store the .cod file and the associated .alx file.
5. In the **Handheld** drop-down list, click the device that you created the theme for.
6. In the **Target OS** drop-down list, click the version of the BlackBerry® Device Software that you created the theme for.
7. To overwrite any existing files automatically, select the **Overwrite existing files** check box.
8. If you want to support the theme in languages other than English, select the **Include international characters** check box.

The BlackBerry Theme Builder creates an .alx file and a .cod file.

After you finish:

Distribute the .alx and .cod files to all BlackBerry device users who require the theme.

Provide feedback about the BlackBerry Theme Studio 20

Research In Motion can use the feedback that you provide to help improve the BlackBerry® Theme Studio.

Before you begin:

You must register and log in to the BlackBerry® Developer Zone.

1. In the BlackBerry Theme Builder, on the **Help** menu, click **Report Issue**.
2. Submit your feedback using the Developer Issue Tracker.

Provide feedback

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To provide feedback on this deliverable, visit www.blackberry.com/docsfeedback.

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